20574908 "01 "80 "4500401

FIG.1

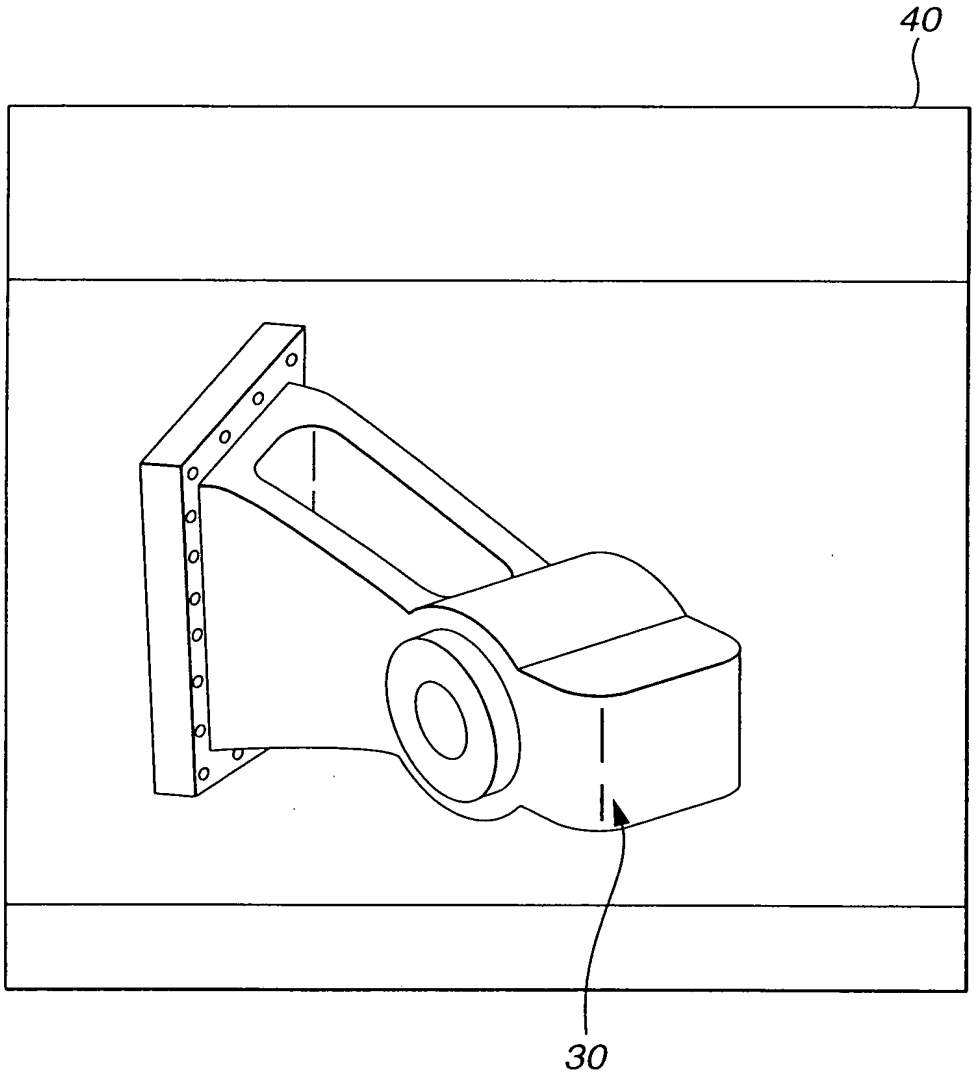

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FIG.2

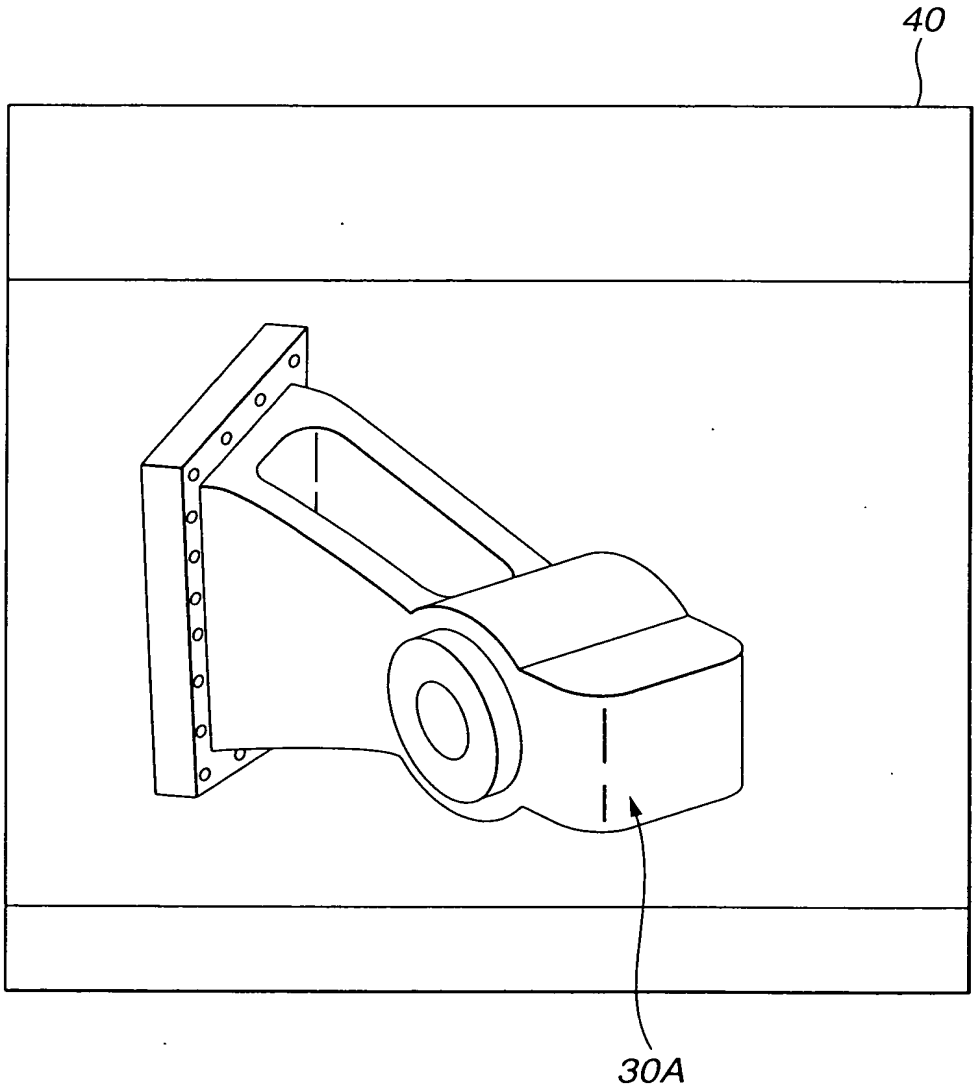

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FIG.3

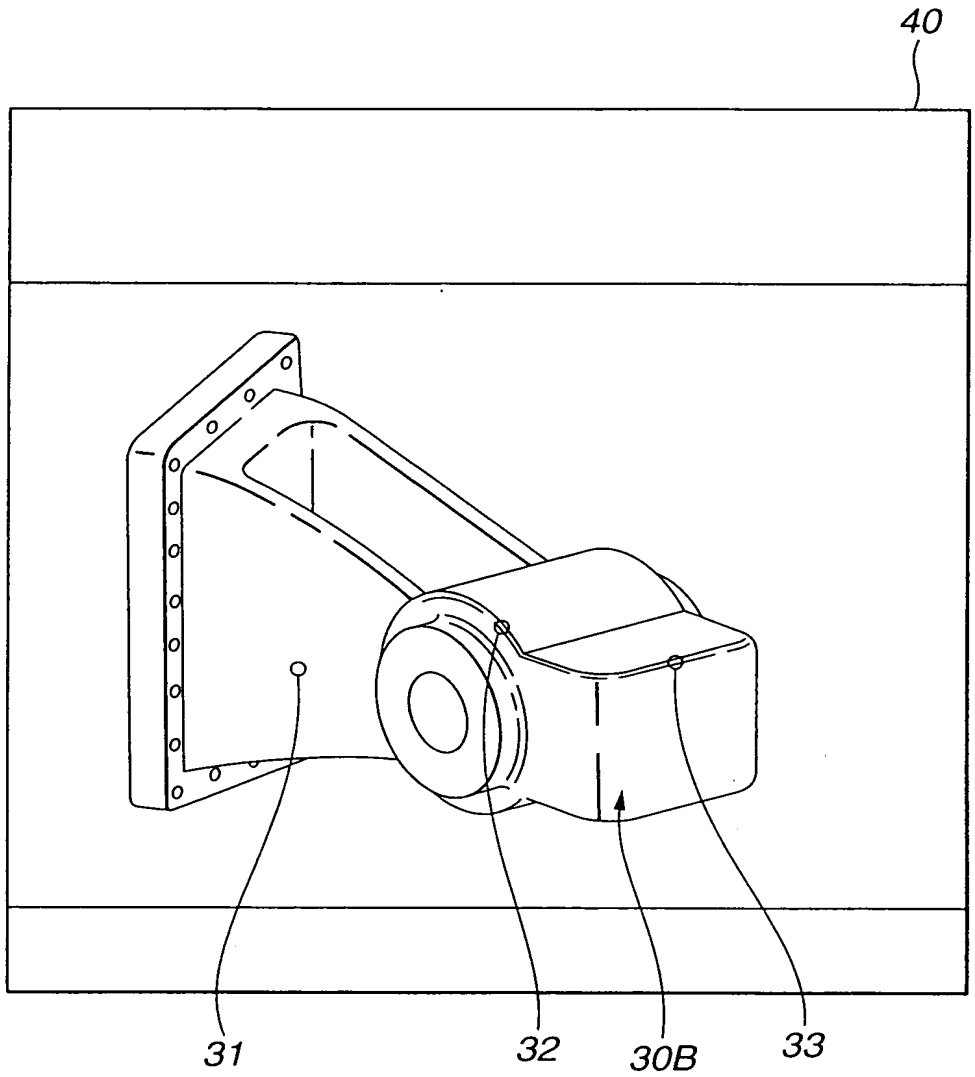

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FIG.4

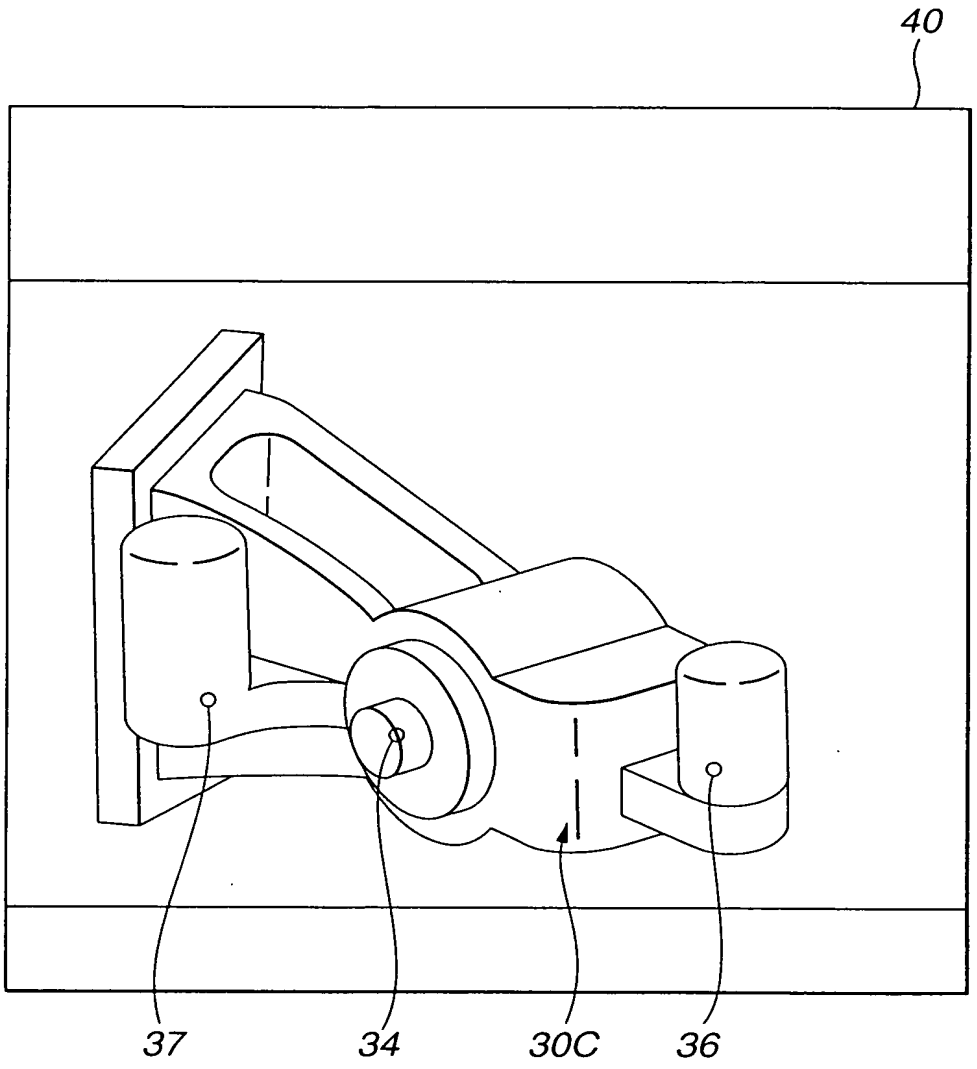

FIG.5

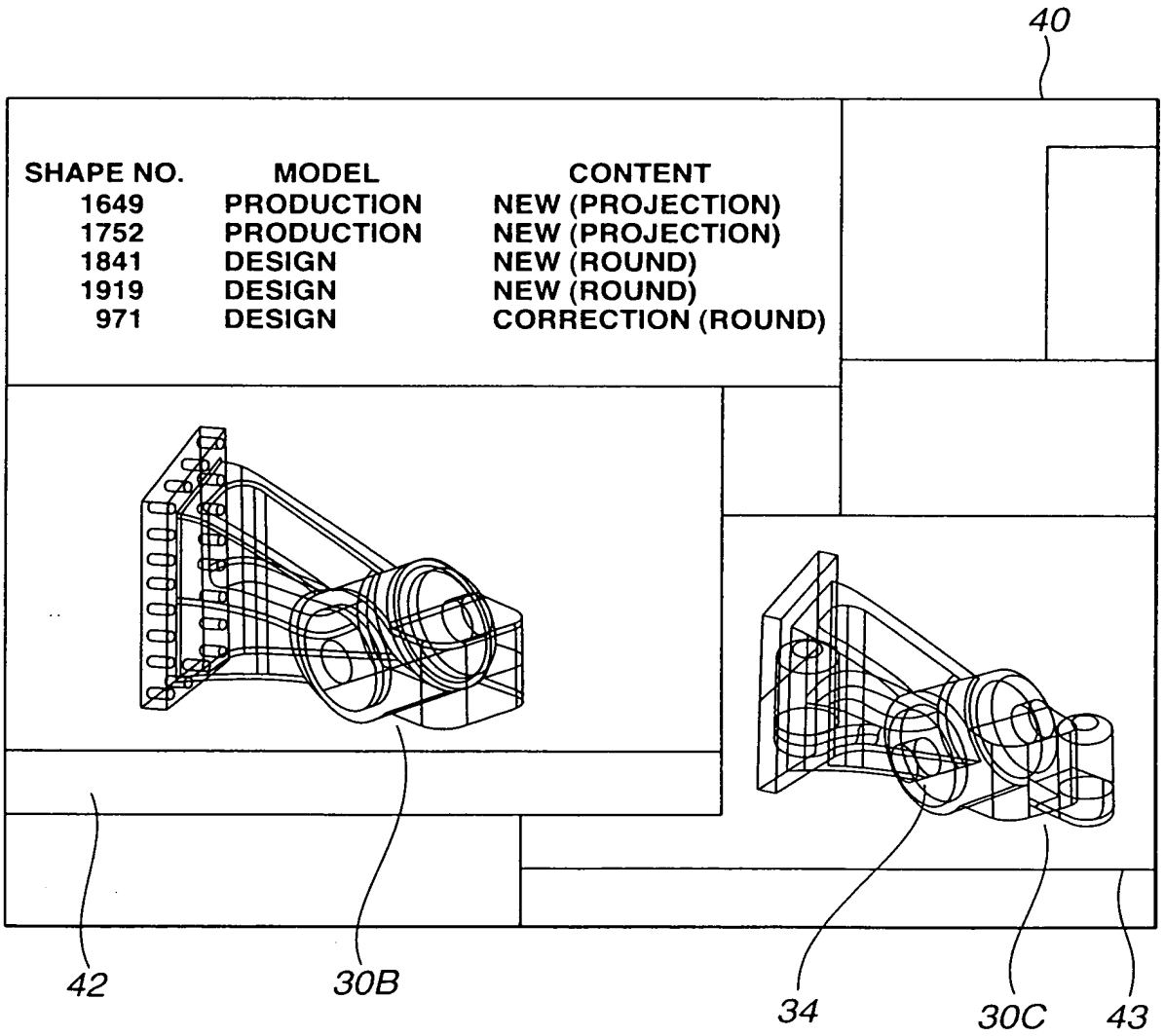
40
SHAPE NO. MODEL CONTENT
1649 PRODUCTION NEW (PROJECTION)
1752 PRODUCTION NEW (PROJECTION)
1841 DESIGN NEW (ROUND)
1919 DESIGN NEW (ROUND)
971 DESIGN CORRECTION (ROUND)
42
30B
34
30C
43

FIG.6

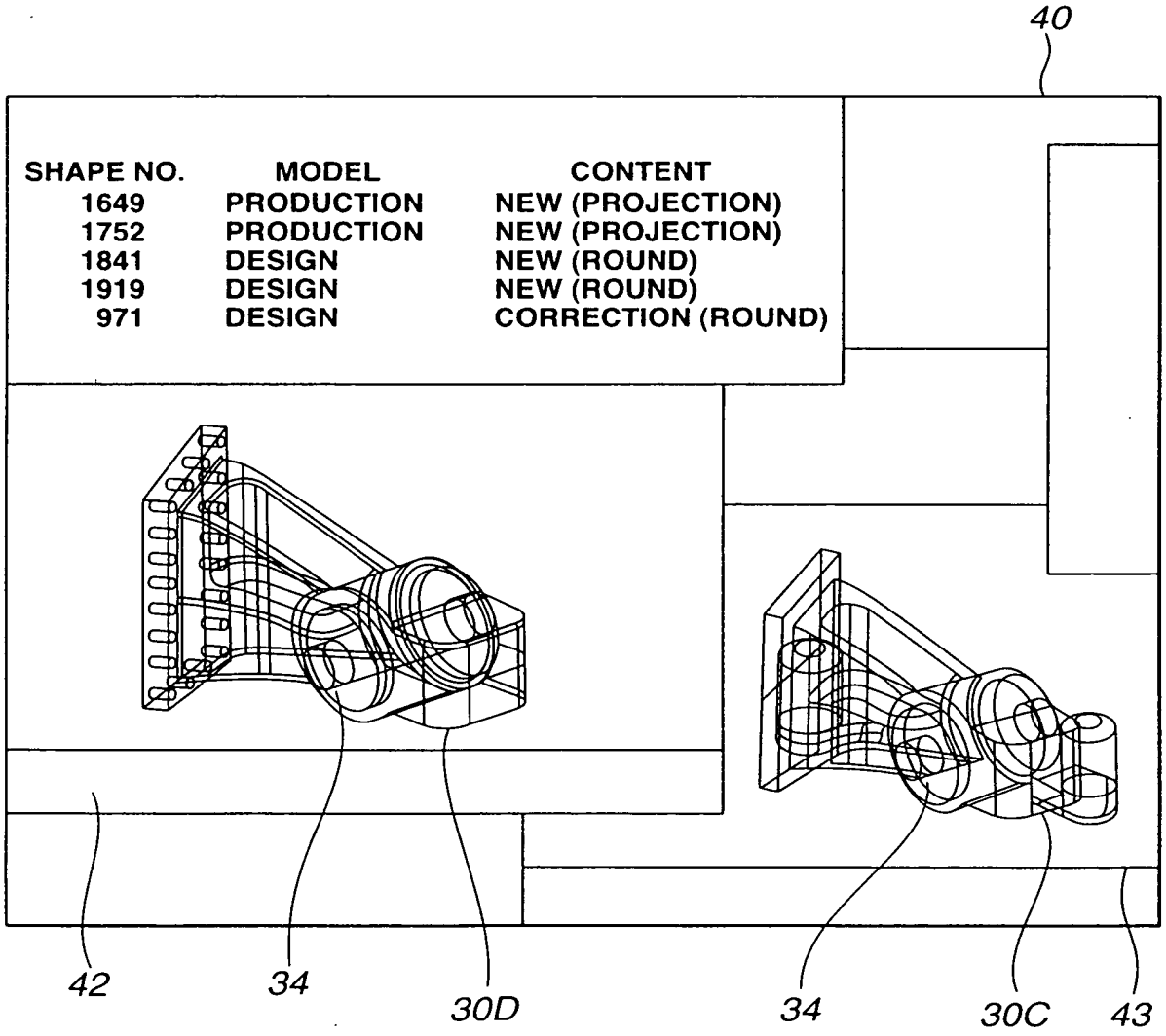
40
SHAPE NO. MODEL CONTENT
1649 PRODUCTION NEW (PROJECTION)
1752 PRODUCTION NEW (PROJECTION)
1841 DESIGN NEW (ROUND)
1919 DESIGN NEW (ROUND)
971 DESIGN CORRECTION (ROUND)
42
34
30D
34
30C
43

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FIG.7

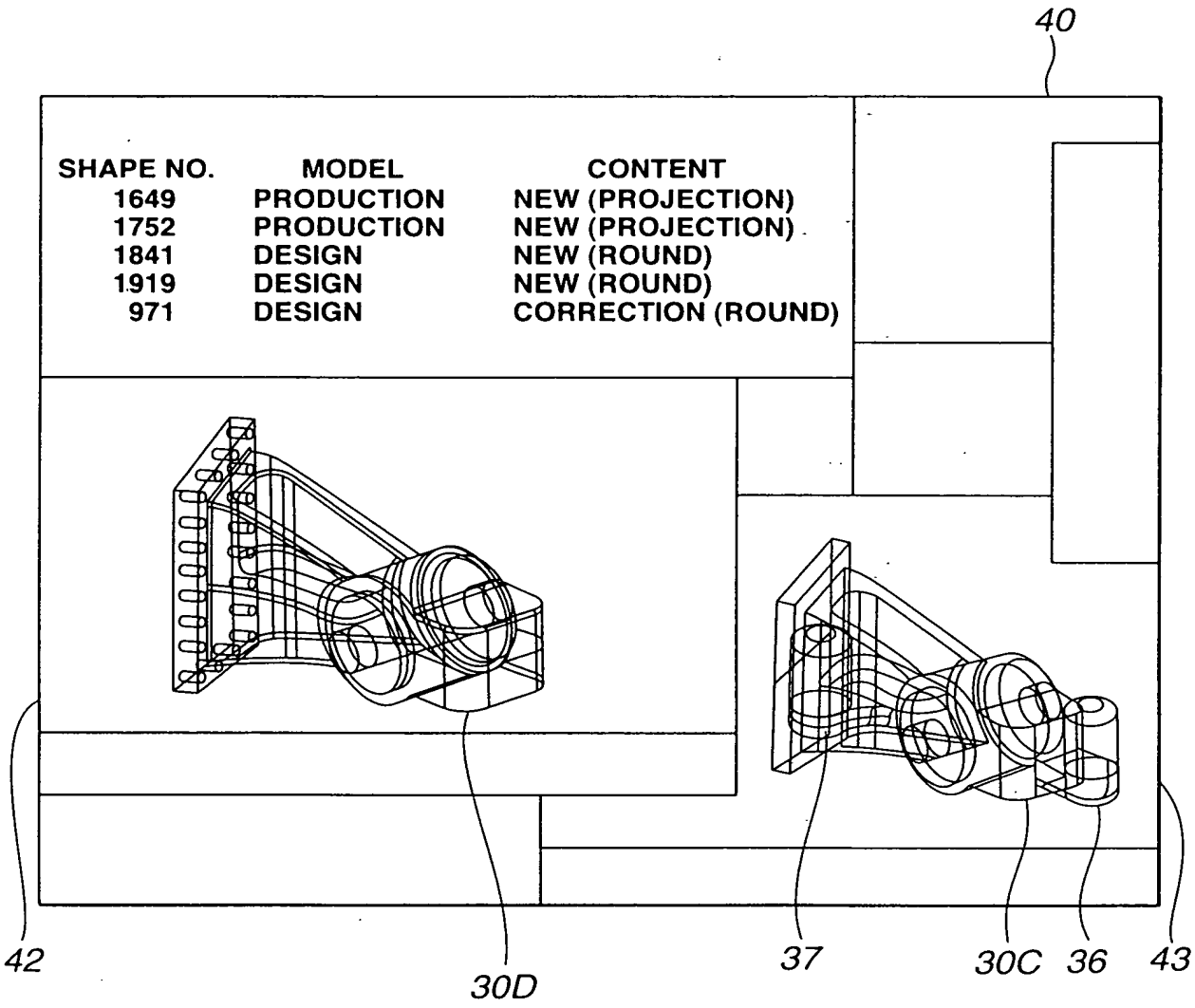

FIG.8

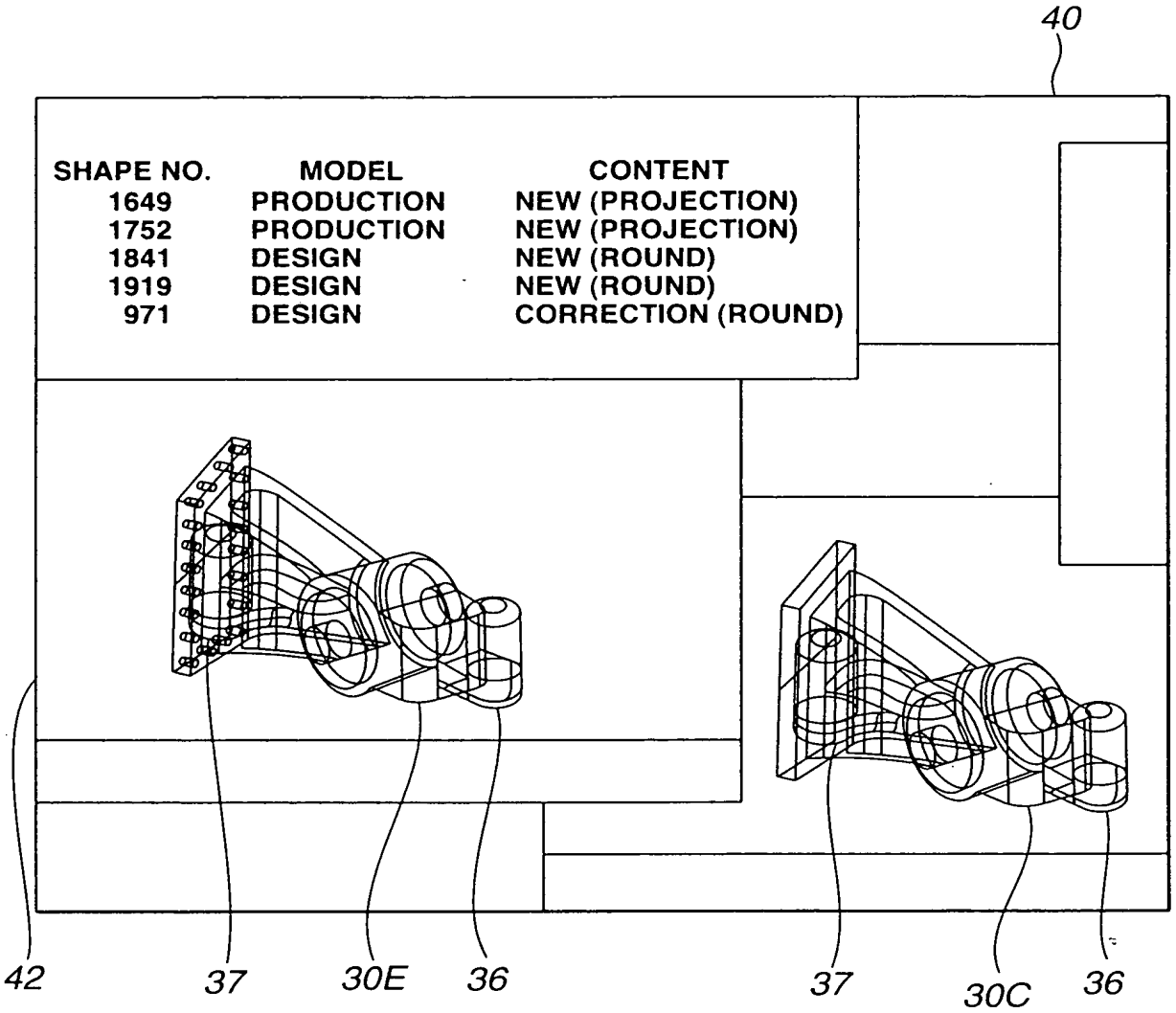
40
SHAPE NO. MODEL CONTENT
1649 PRODUCTION NEW (PROJECTION)
1752 PRODUCTION NEW (PROJECTION)
1841 DESIGN NEW (ROUND)
1919 DESIGN NEW (ROUND)
971 DESIGN CORRECTION (ROUND)
42
37
30E
36
37
30C
36

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FIG.9

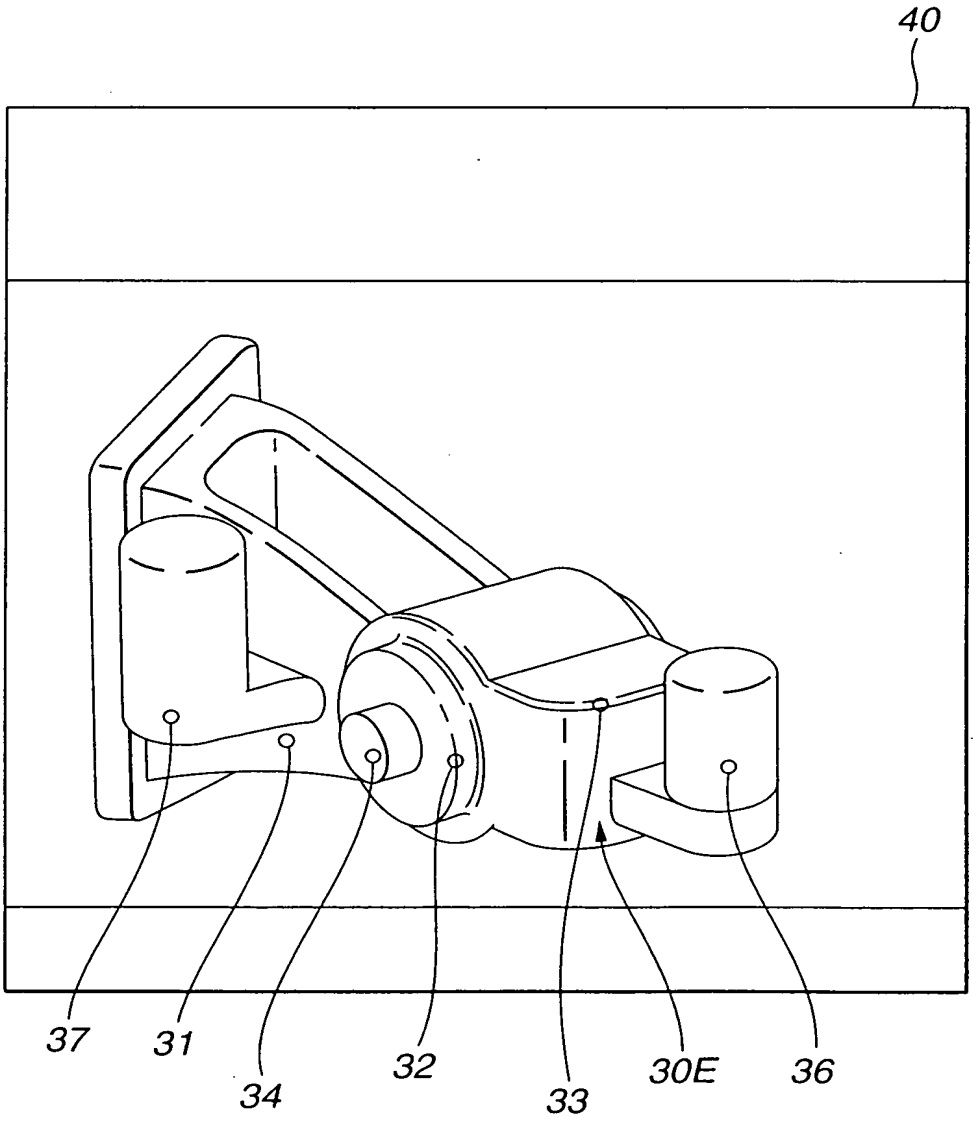

FIG.10

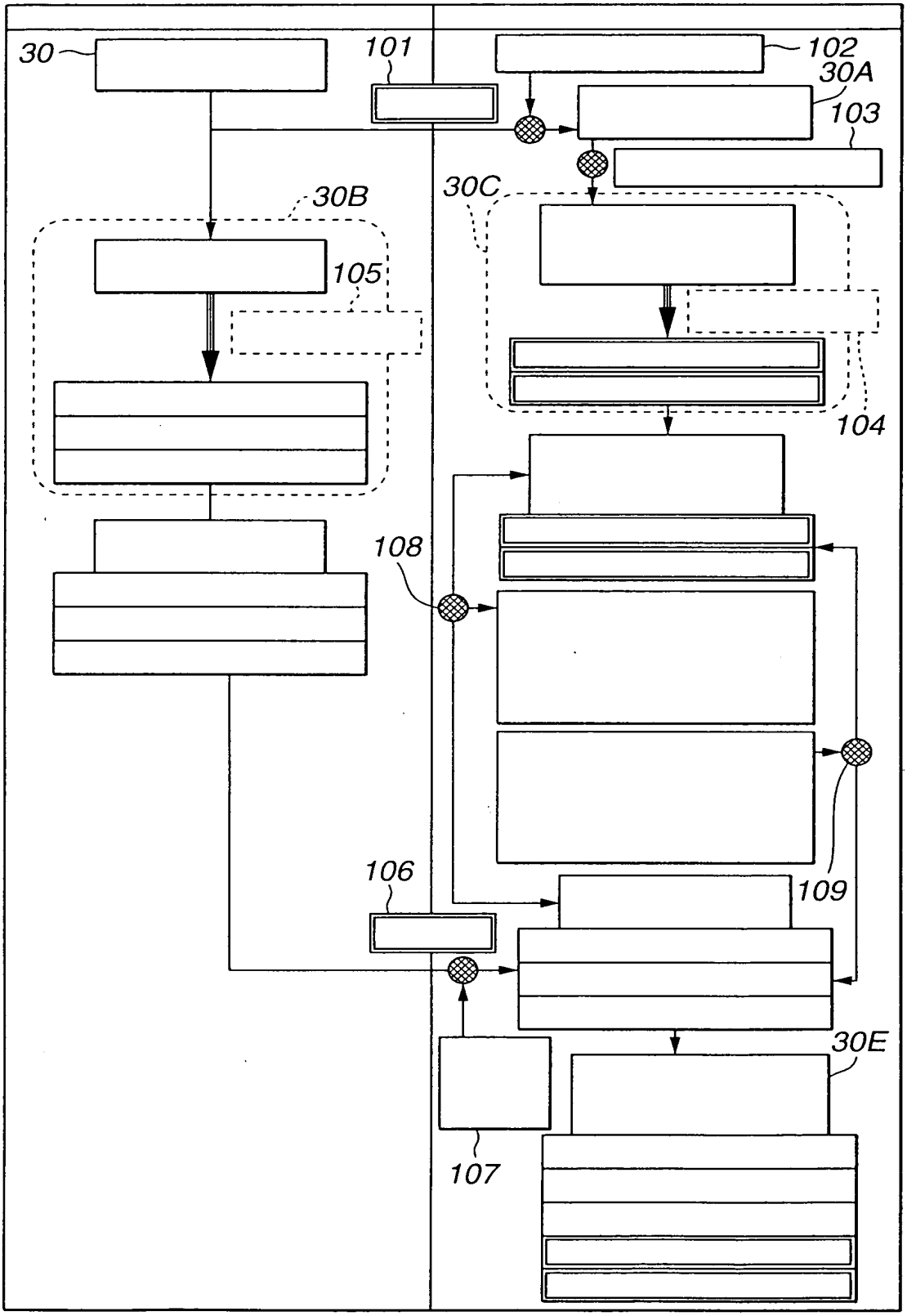

FIG.10(a)

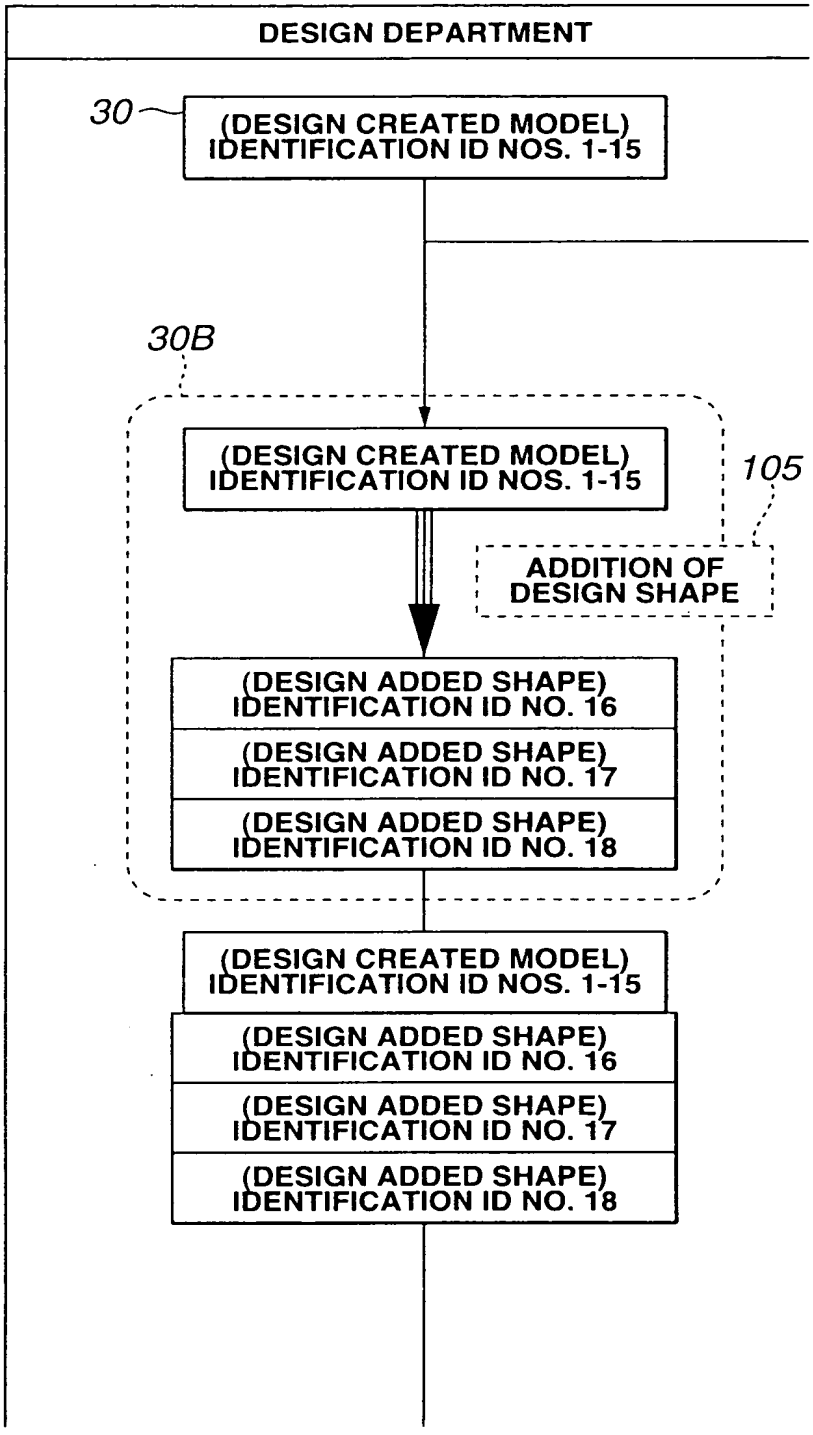

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FIG.10(b)

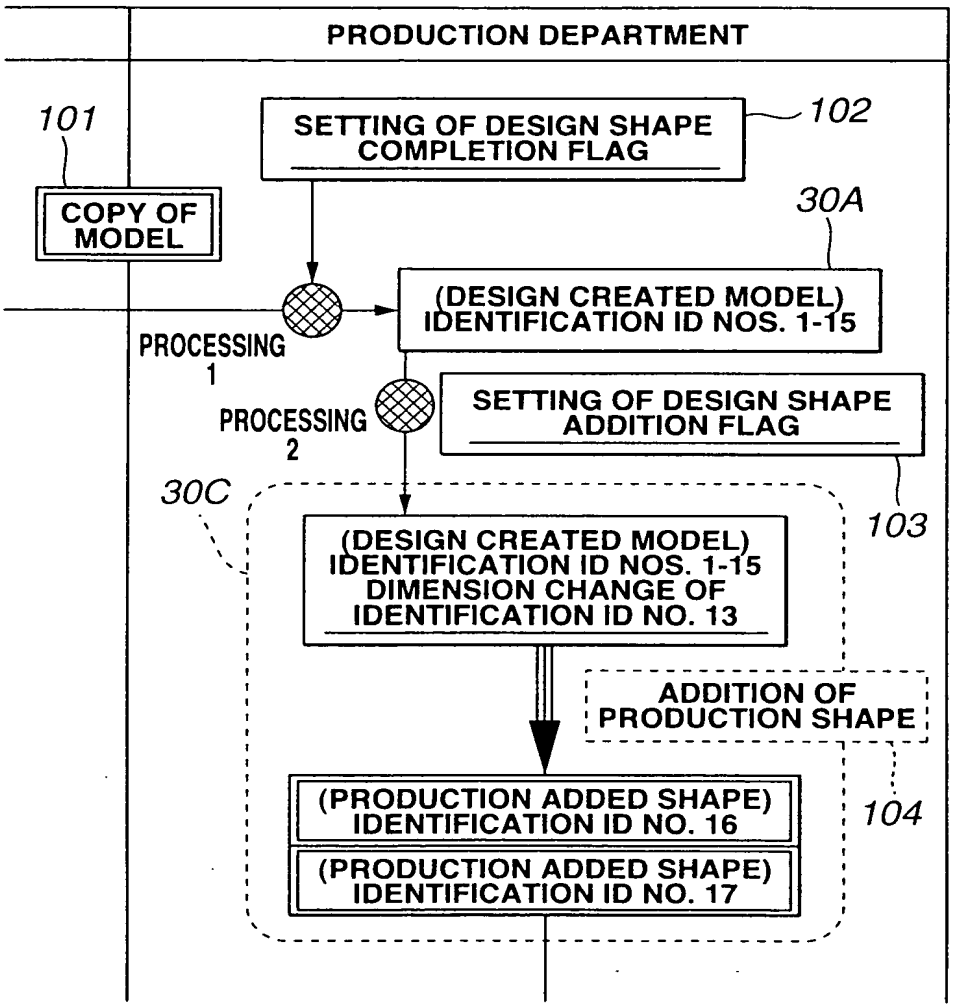

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FIG.10(c)

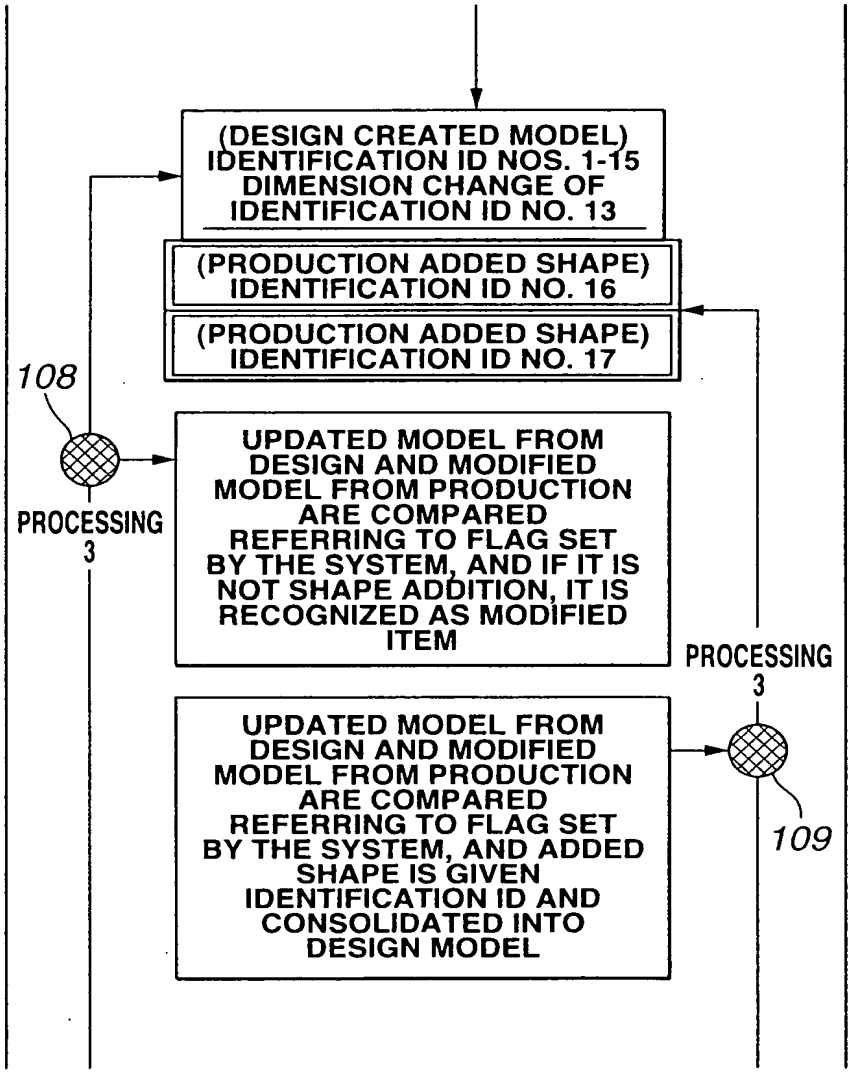

FIG.10(d)

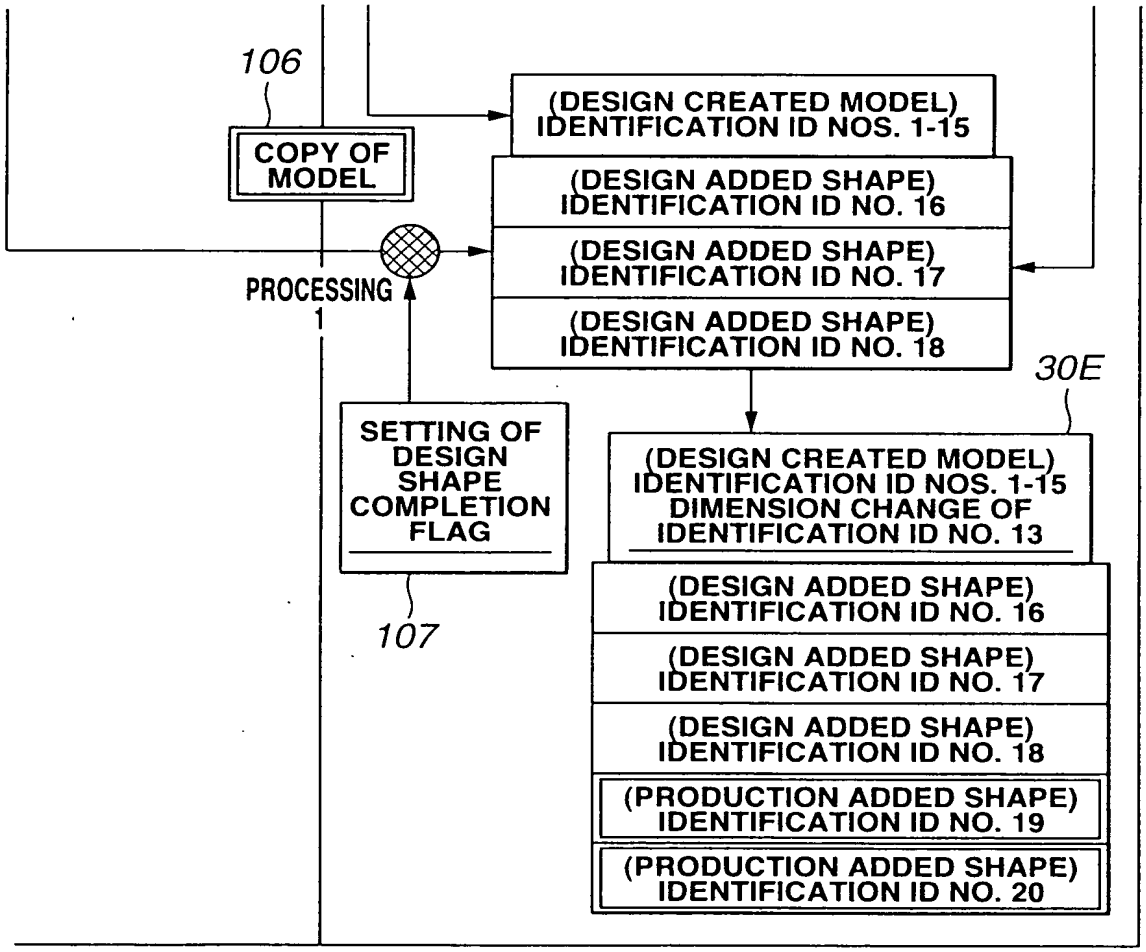

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FIG.11

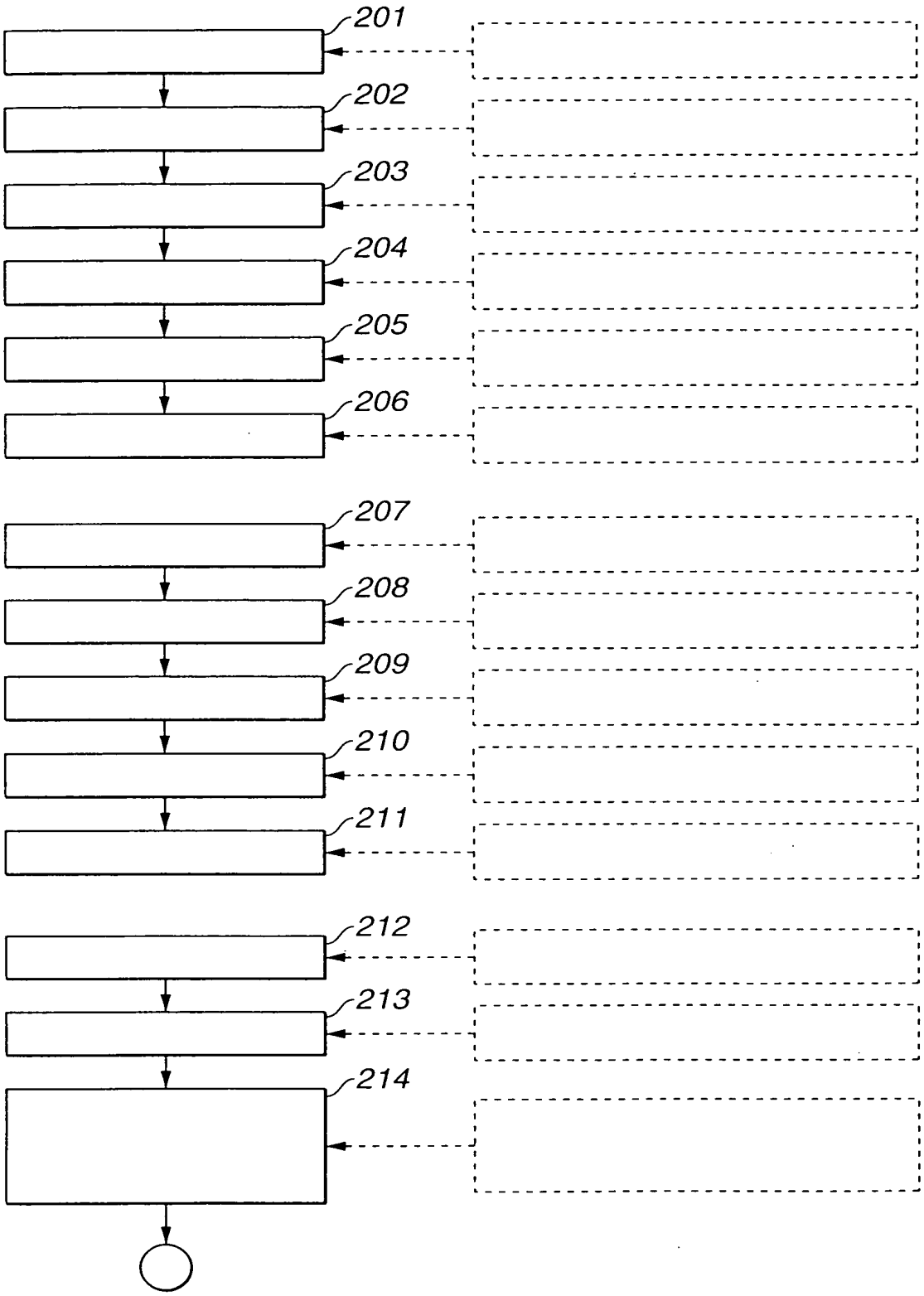

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FIG.11(a)

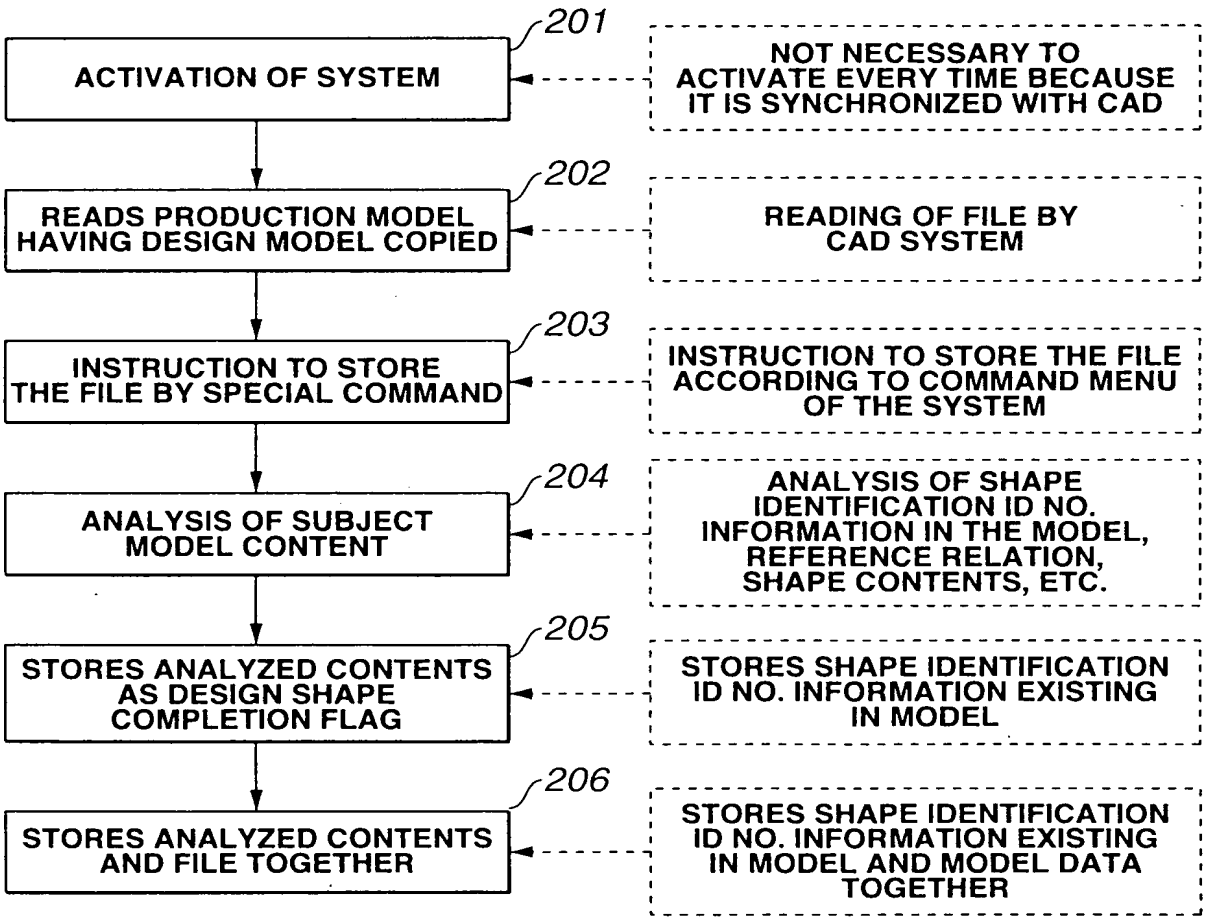

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FIG.11(b)

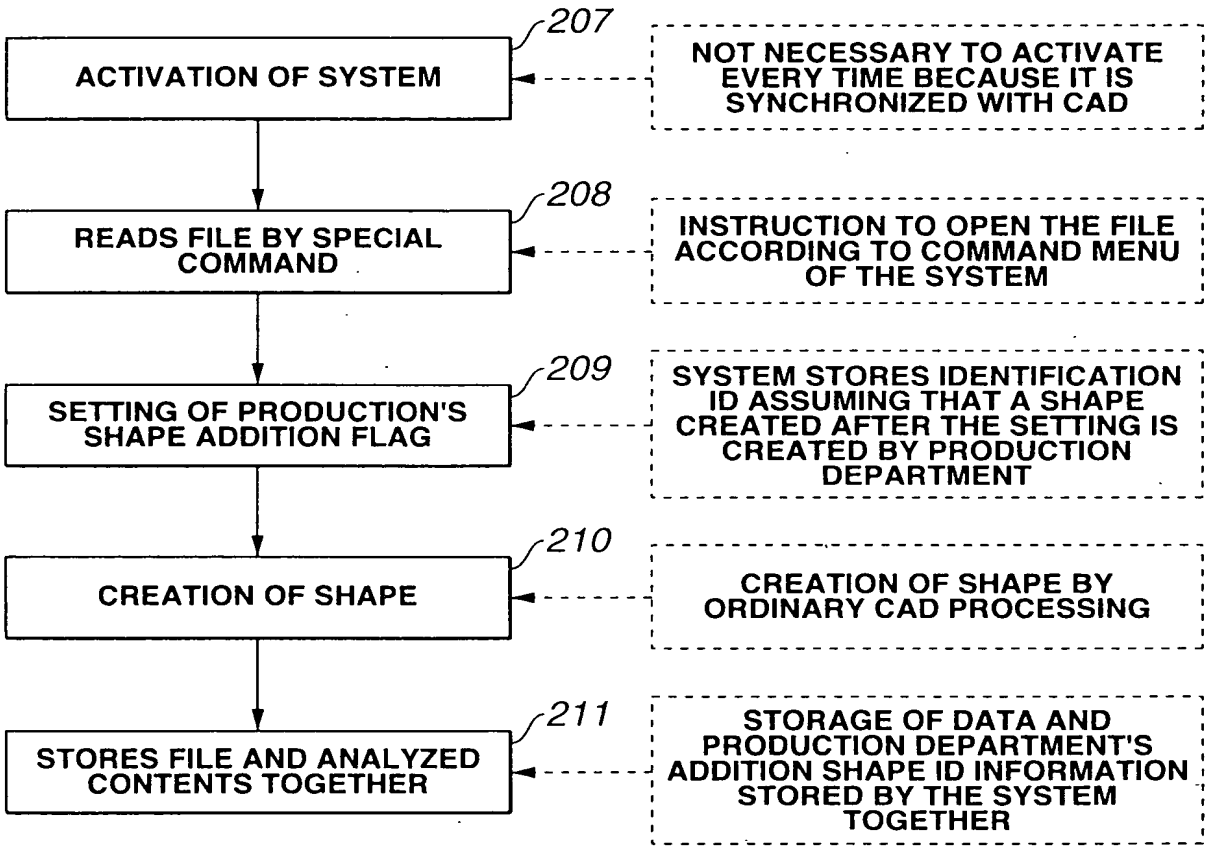

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FIG.11(c)

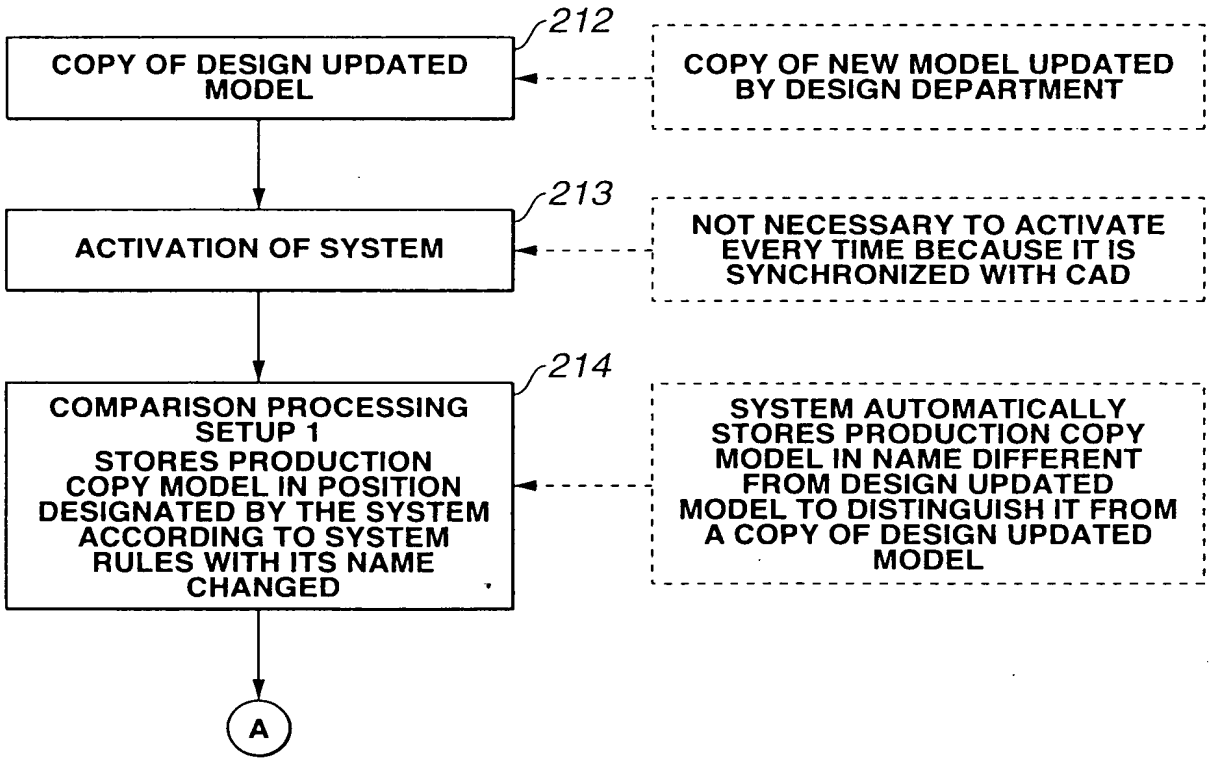

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FIG.12

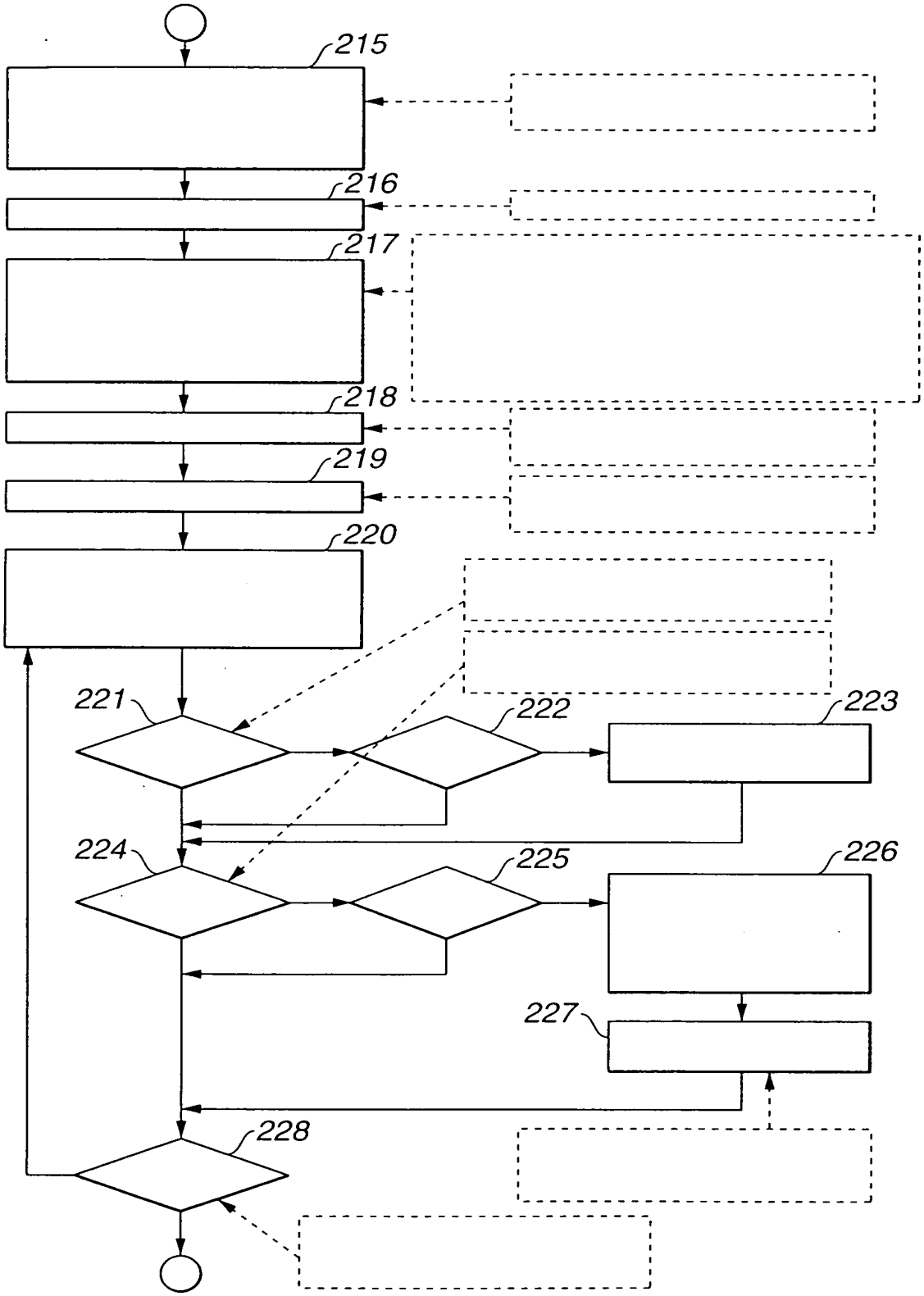

FIG.12(a)

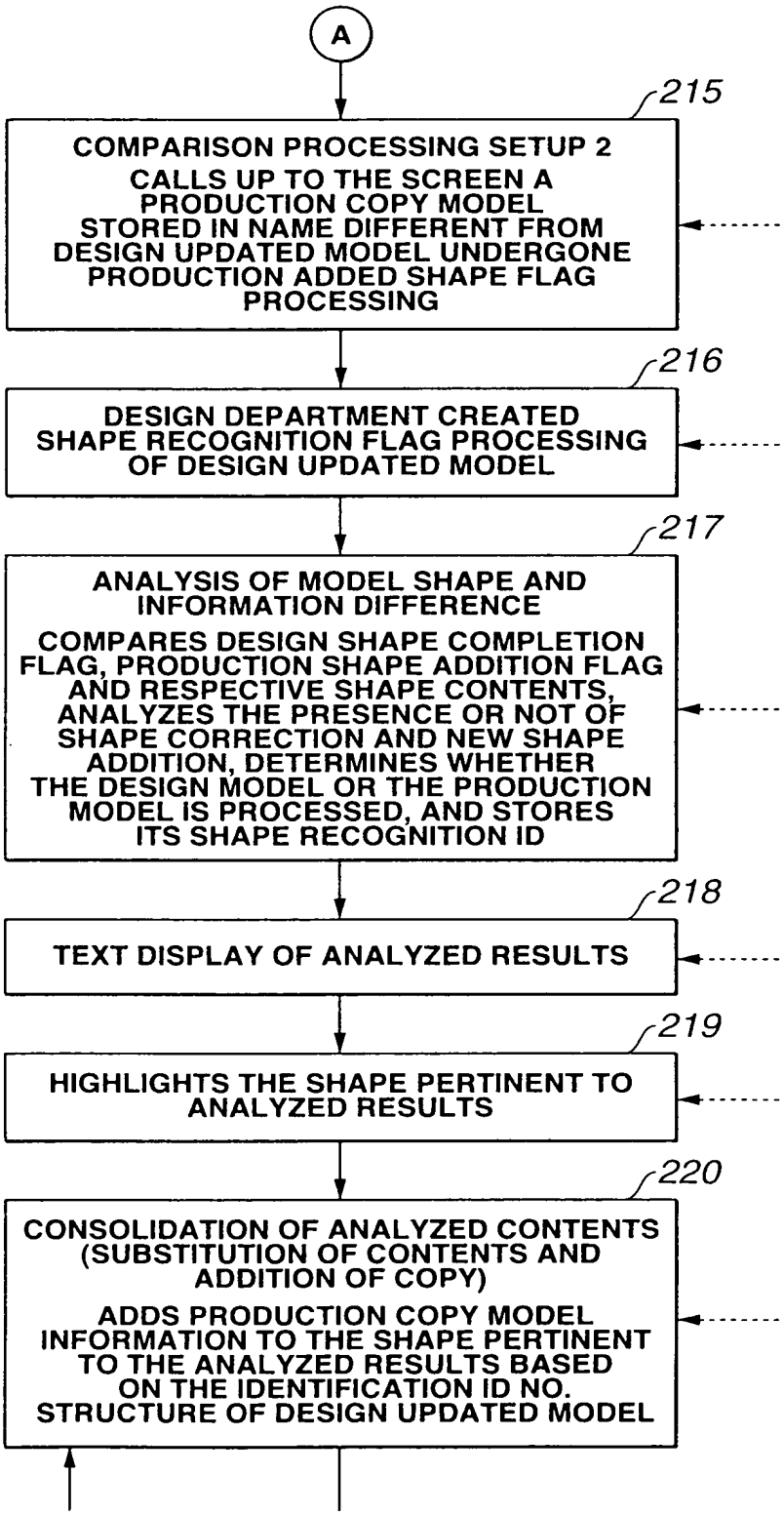

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FIG.12(b)

CALLS UP TO THE SCREEN BOTH MODELS TO SHOW THE RESULTS OF COMPARING MODEL DIFFERENCES

STORES DESIGN CREATED SHAPE IDENTIFICATION ID NO. OF DESIGN UPDATED MODEL

ANALYSIS OF COMMON SHAPE IDENTIFICATION ID NO.

NEW DESIGN FLAG	OLD DESIGN FLAG	PRODUCTION FLAG	CONTENT DIFFERENCE	ANALYZED RESULTS
YES	YES	NO	NO	NONTARGET
YES	YES	NO	YES	CORRECTION
YES	NO	NO	–	DESIGN, NEW
NO	NO	YES	–	PRODUCTION, NEW
YES	NO	YES	YES	DESIGN AND PRODUCTION, NEW

DISPLAYS ANALYZED CONTENTS AS A LIST OF TEXT IN INDIVIDUAL WINDOWS

HIGHLIGHTS THE SHAPE OF PERTINENT IDENTIFICATION ID NO. ON THE SCREEN BY SELECTING AN ITEM SHOWN IN THE LIST OF TEXTS

SHAPES HAVING THE SAME SHAPE IDENTIFICATION ID IN THE DESIGN SHAPE COMPLETION FLAG AND DIFFERENT DESCRIBED CONTENTS

SHAPE IN PRODUCTION ADDED SHAPE FLAG IS ASSUMED TO BE NEWLY ADDED SHAPE EVEN IF THE SAME SHAPE IDENTIFICATION ID IS WITHIN THE DESIGN UPDATED MODEL

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FIG.12(c)

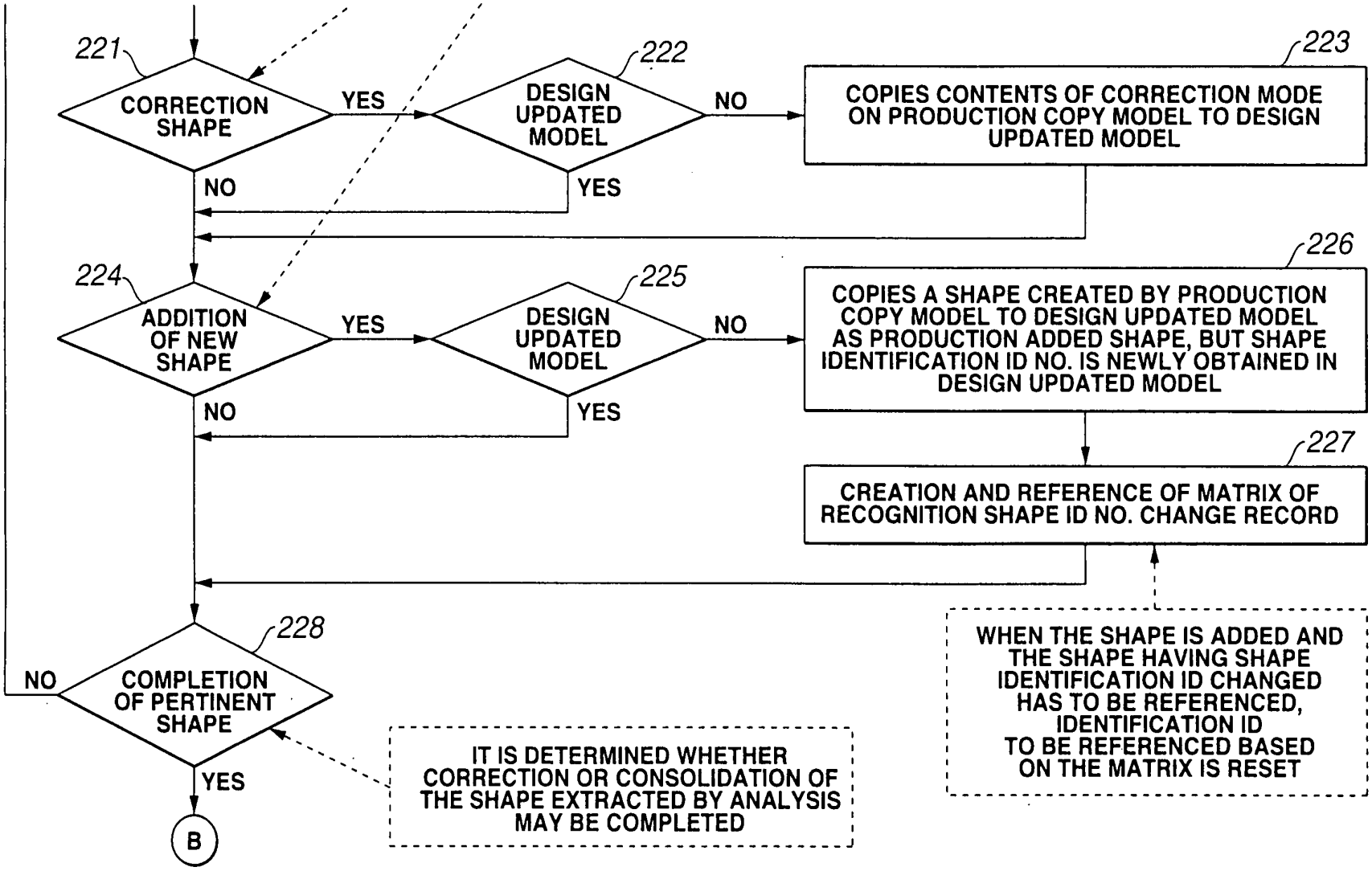
221
CORRECTION SHAPE
YES
222
DESIGN UPDATED MODEL
NO
223
COPIES CONTENTS OF CORRECTION MODE ON PRODUCTION COPY MODEL TO DESIGN UPDATED MODEL
NO
YES
224
ADDITION OF NEW SHAPE
YES
225
DESIGN UPDATED MODEL
NO
226
COPIES A SHAPE CREATED BY PRODUCTION COPY MODEL TO DESIGN UPDATED MODEL AS PRODUCTION ADDED SHAPE, BUT SHAPE IDENTIFICATION ID NO. IS NEWLY OBTAINED IN DESIGN UPDATED MODEL
NO
YES
227
CREATION AND REFERENCE OF MATRIX OF RECOGNITION SHAPE ID NO. CHANGE RECORD
228
NO
COMPLETION OF PERTINENT SHAPE
YES
B
IT IS DETERMINED WHETHER CORRECTION OR CONSOLIDATION OF THE SHAPE EXTRACTED BY ANALYSIS MAY BE COMPLETED
WHEN THE SHAPE IS ADDED AND THE SHAPE HAVING SHAPE IDENTIFICATION ID CHANGED HAS TO BE REFERENCED, IDENTIFICATION ID TO BE REFERENCED BASED ON THE MATRIX IS RESET

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FIG.13

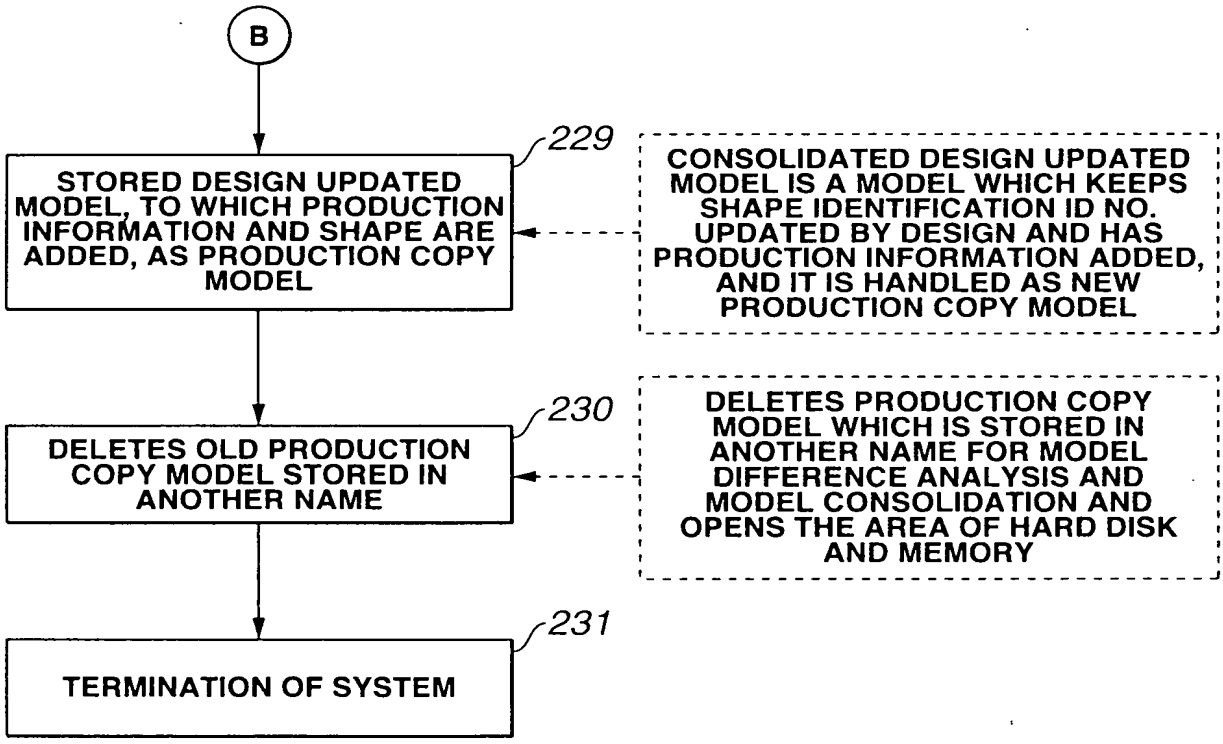
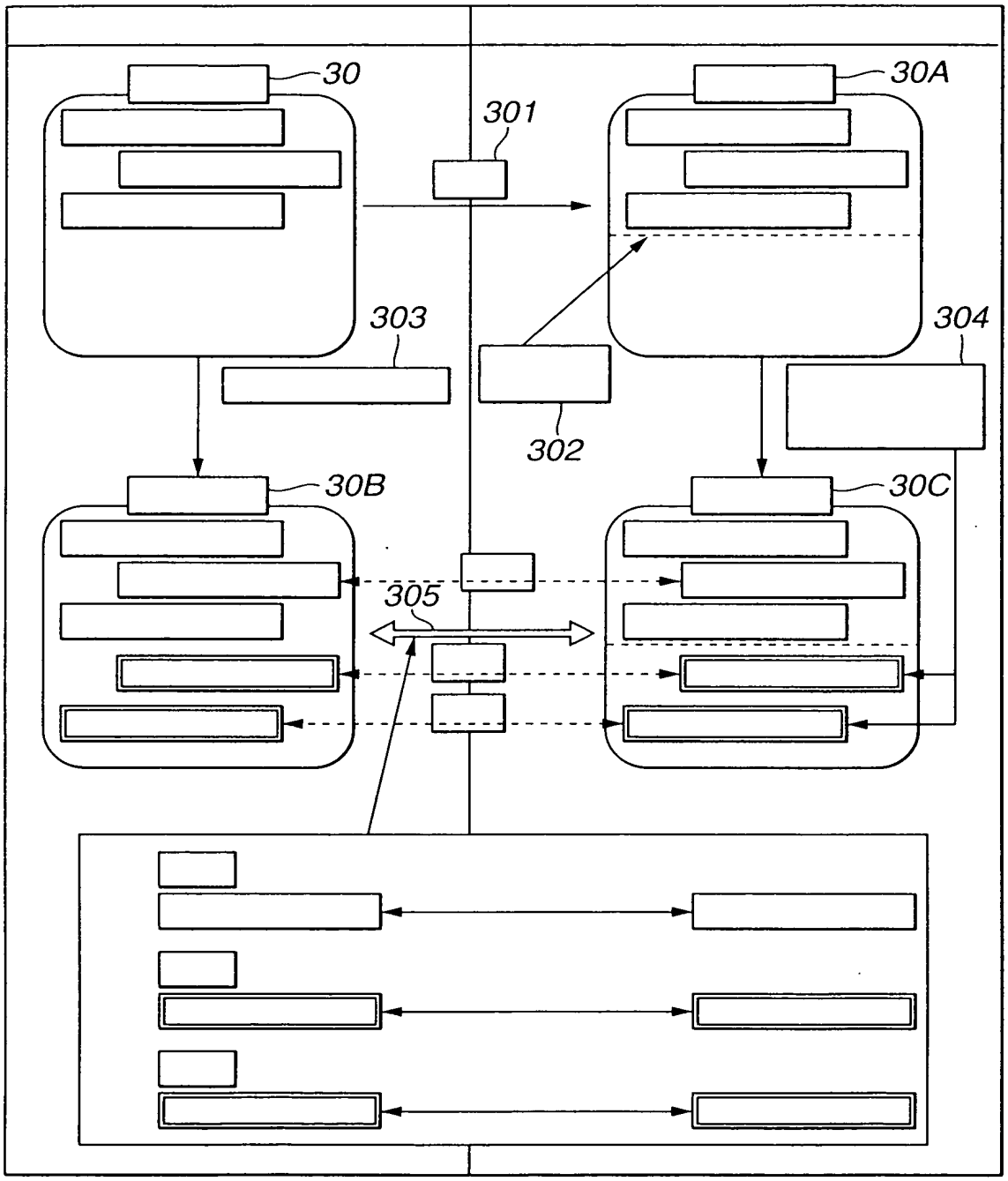
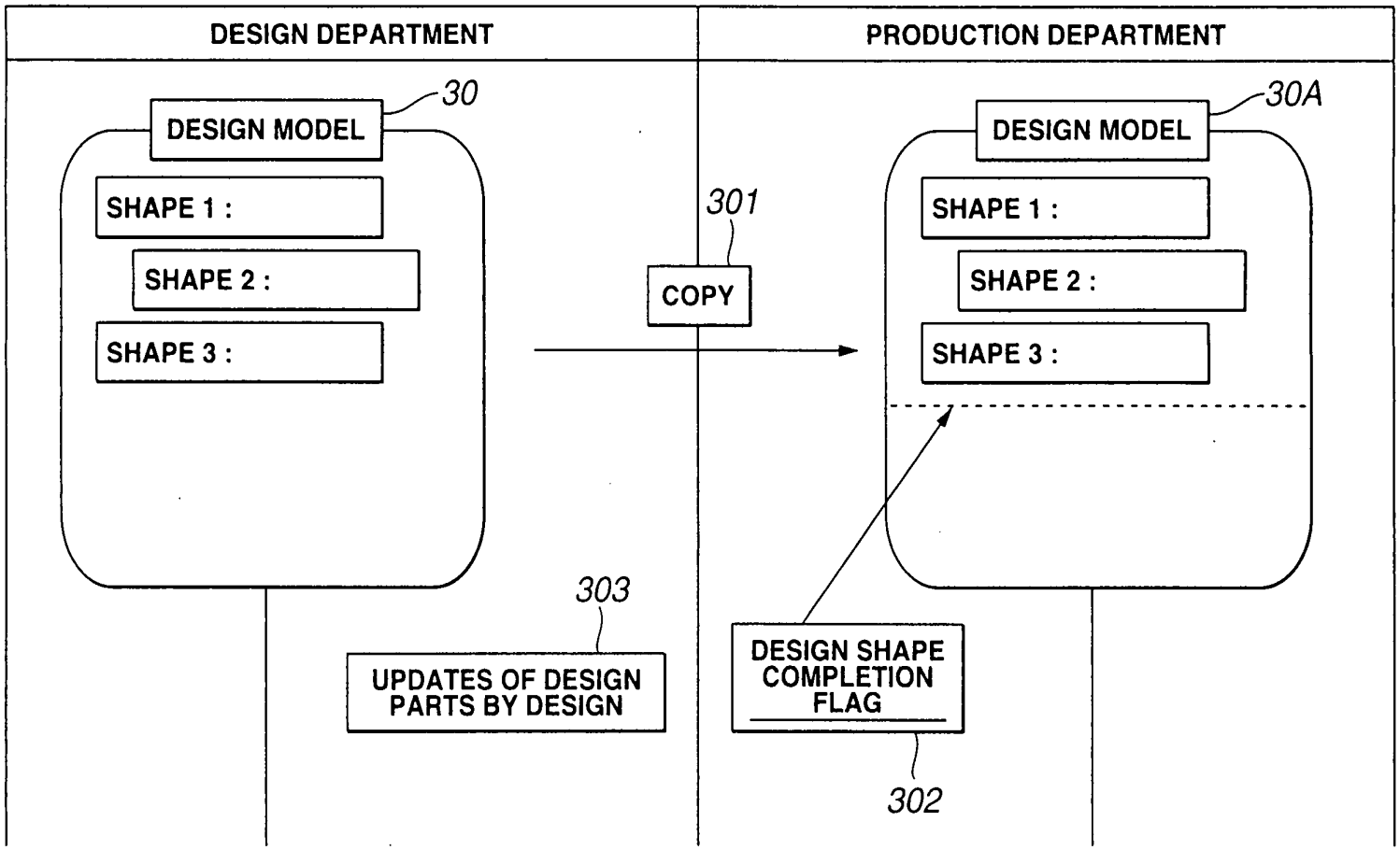


FIG.14



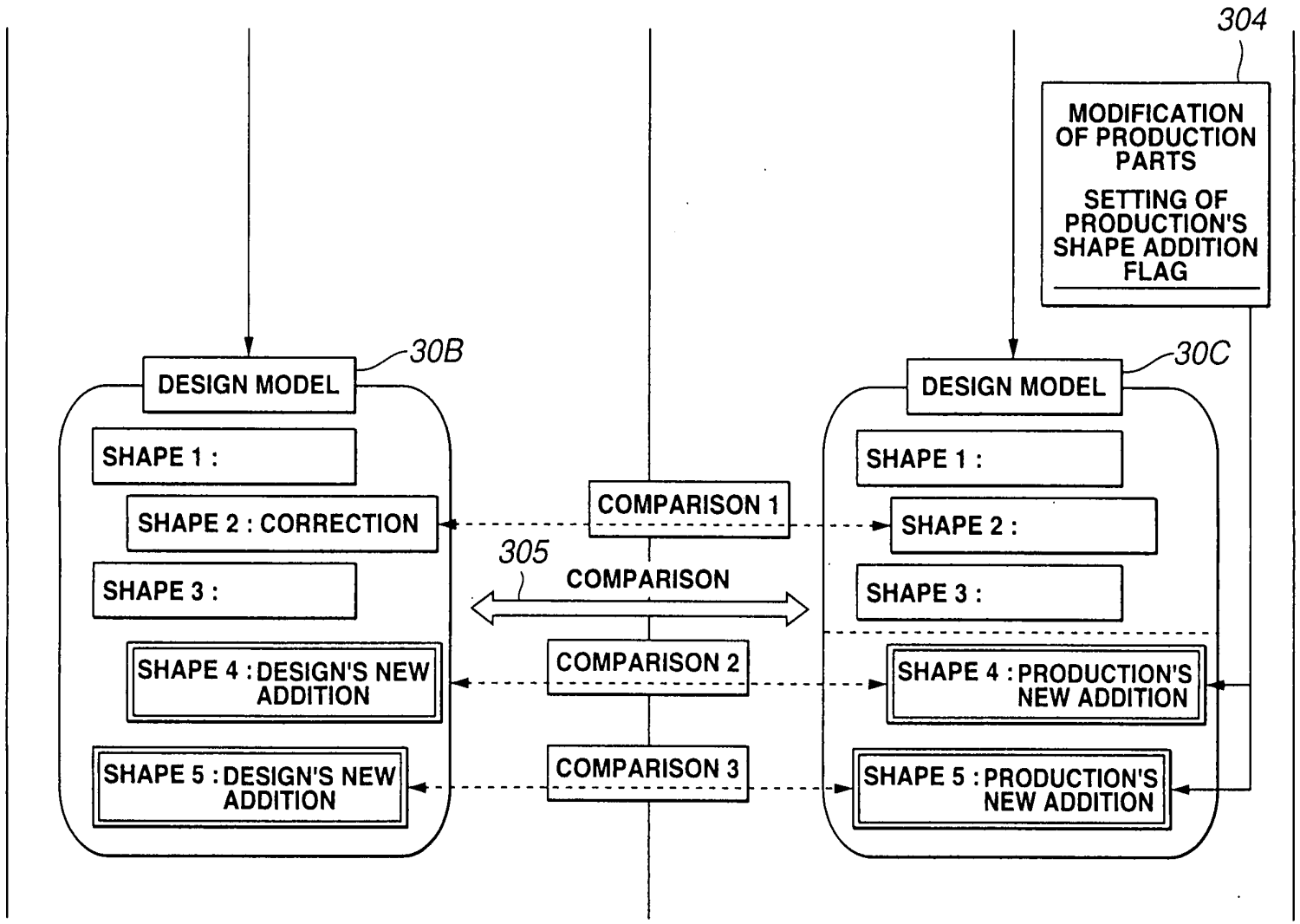
20STTO" 980SHOOT

FIG.14(a)



20STTO"9805hOOt

FIG.14(b)



20STTO' 9805hOOT

FIG.14(c)

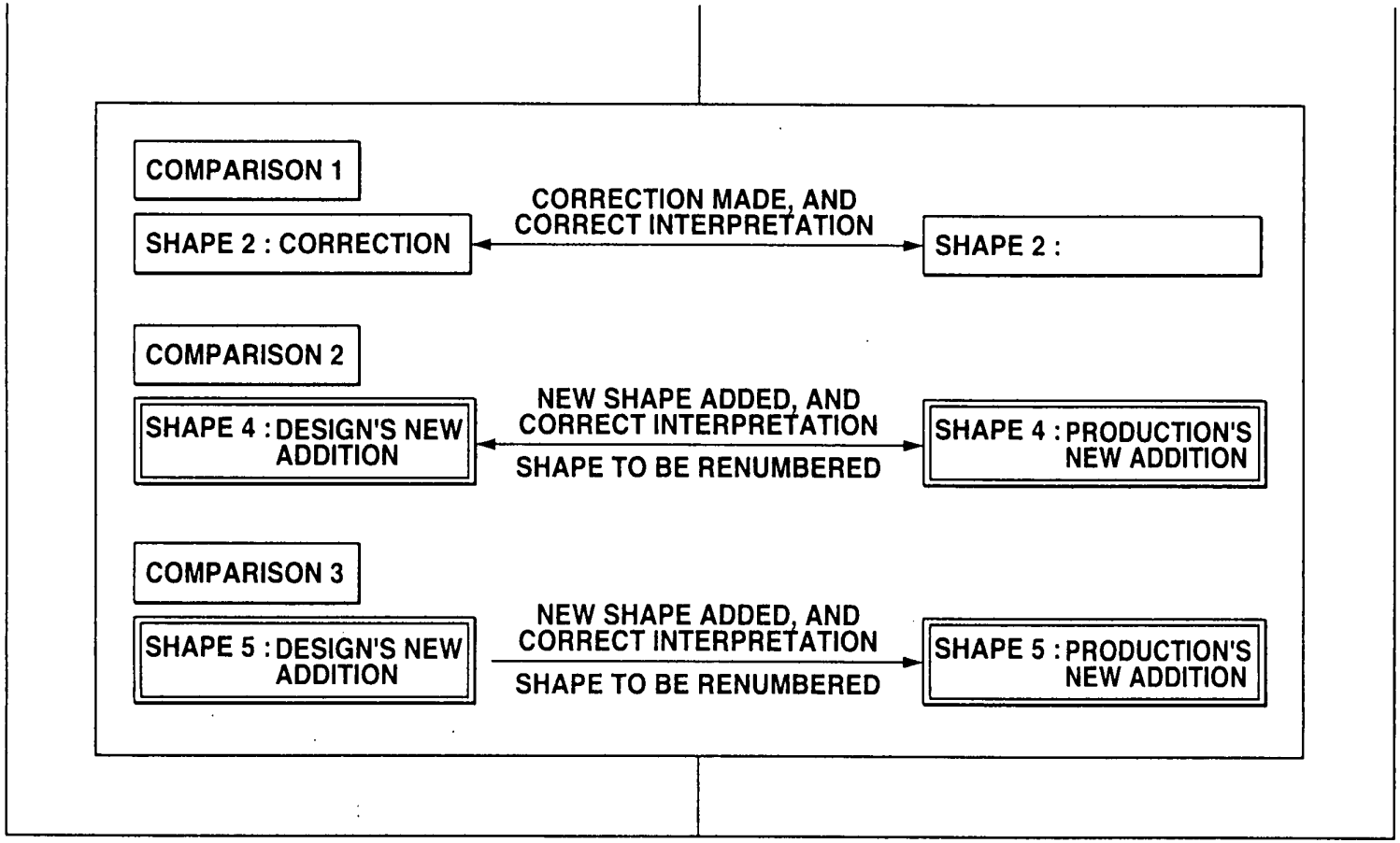


FIG.15

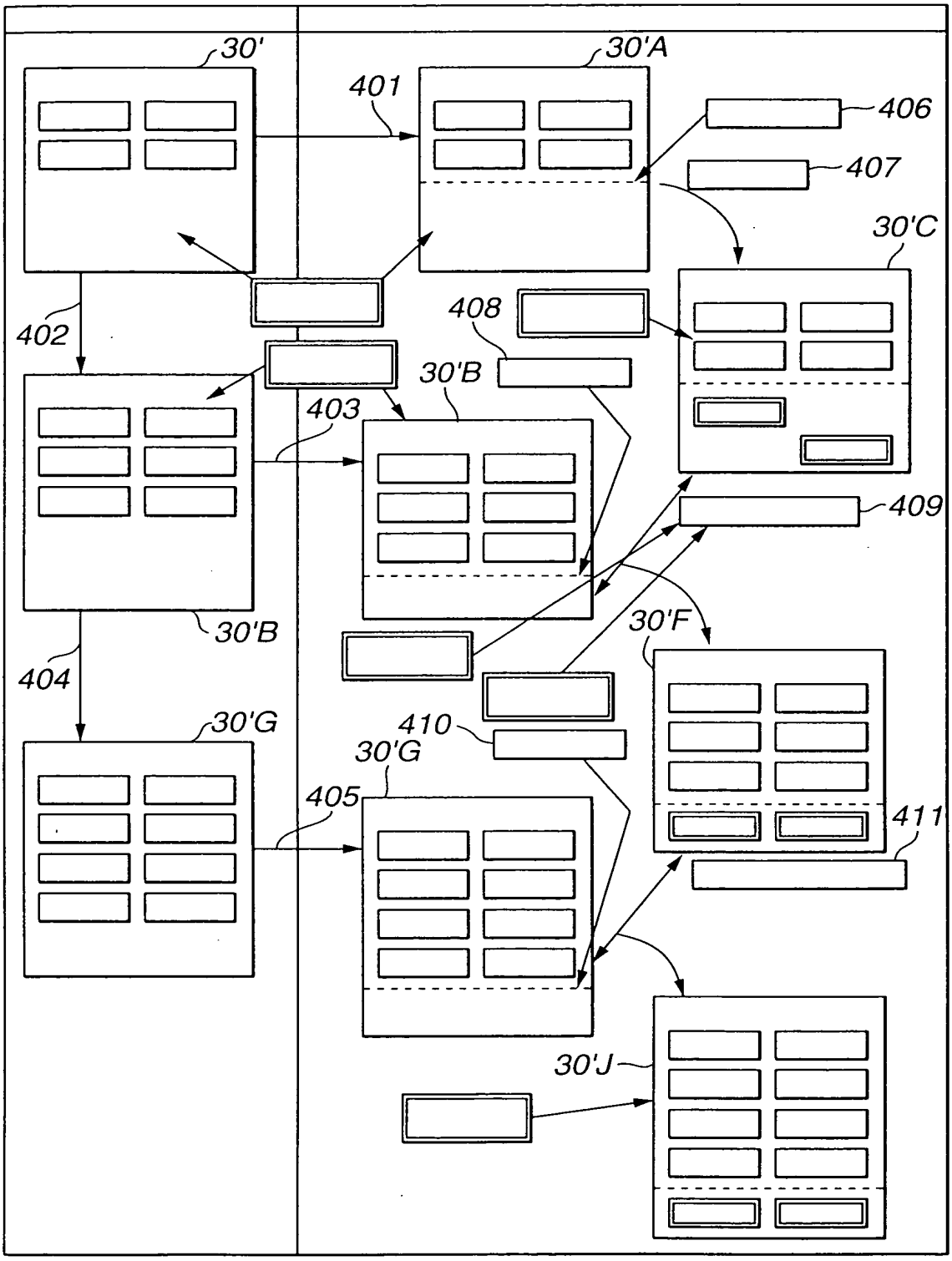
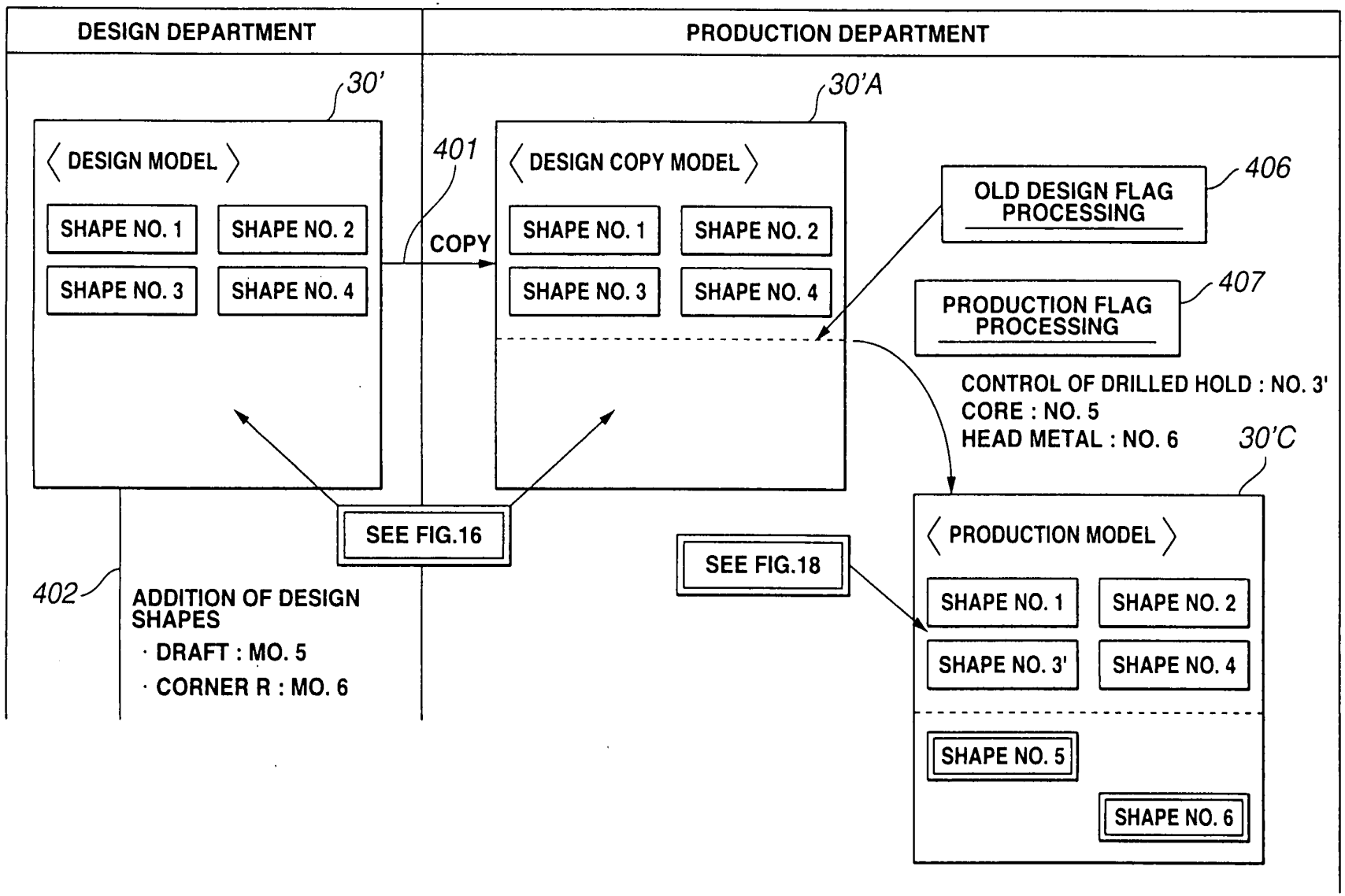
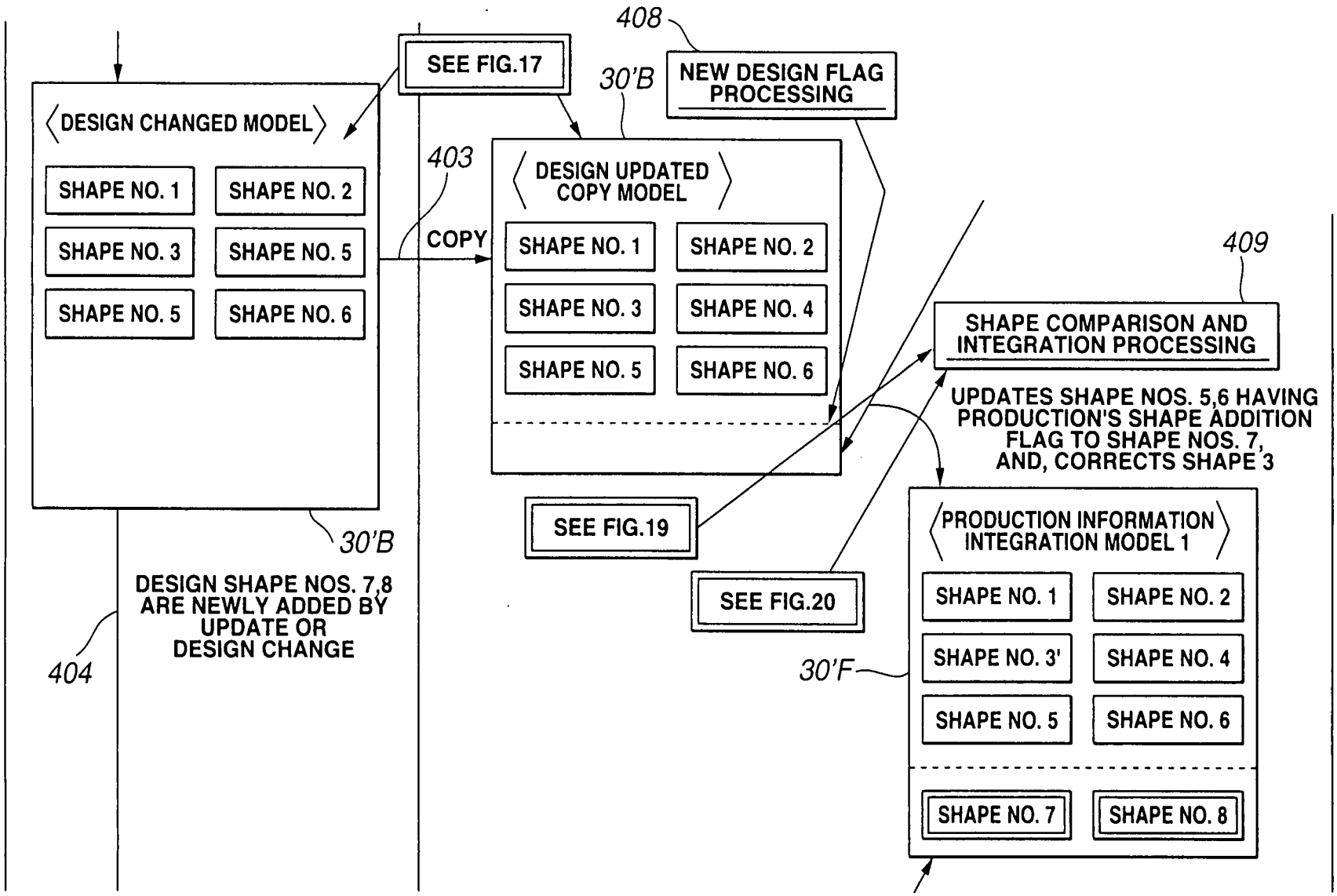

30'
30'A
401
406
407
30'C
408
402
30'B
403
409
30'B
30'F
404
30'G
410
30'G
405
411
30'J

FIG.15(a)


DESIGN DEPARTMENT
PRODUCTION DEPARTMENT
30'
30'A
〈 DESIGN MODEL 〉
SHAPE NO. 1
SHAPE NO. 2
SHAPE NO. 3
SHAPE NO. 4
401
COPY
〈 DESIGN COPY MODEL 〉
SHAPE NO. 1
SHAPE NO. 2
SHAPE NO. 3
SHAPE NO. 4
406
OLD DESIGN FLAG PROCESSING
407
PRODUCTION FLAG PROCESSING
CONTROL OF DRILLED HOLD : NO. 3'
CORE : NO. 5
HEAD METAL : NO. 6
30'C
SEE FIG.16
SEE FIG.18
〈 PRODUCTION MODEL 〉
SHAPE NO. 1
SHAPE NO. 2
SHAPE NO. 3'
SHAPE NO. 4
SHAPE NO. 5
SHAPE NO. 6
402
ADDITION OF DESIGN SHAPES
· DRAFT : MO. 5
· CORNER R : MO. 6

20STTO" 9805hOOT

FIG.15(b)



20STTO" 980SH0T

FIG.15(c)

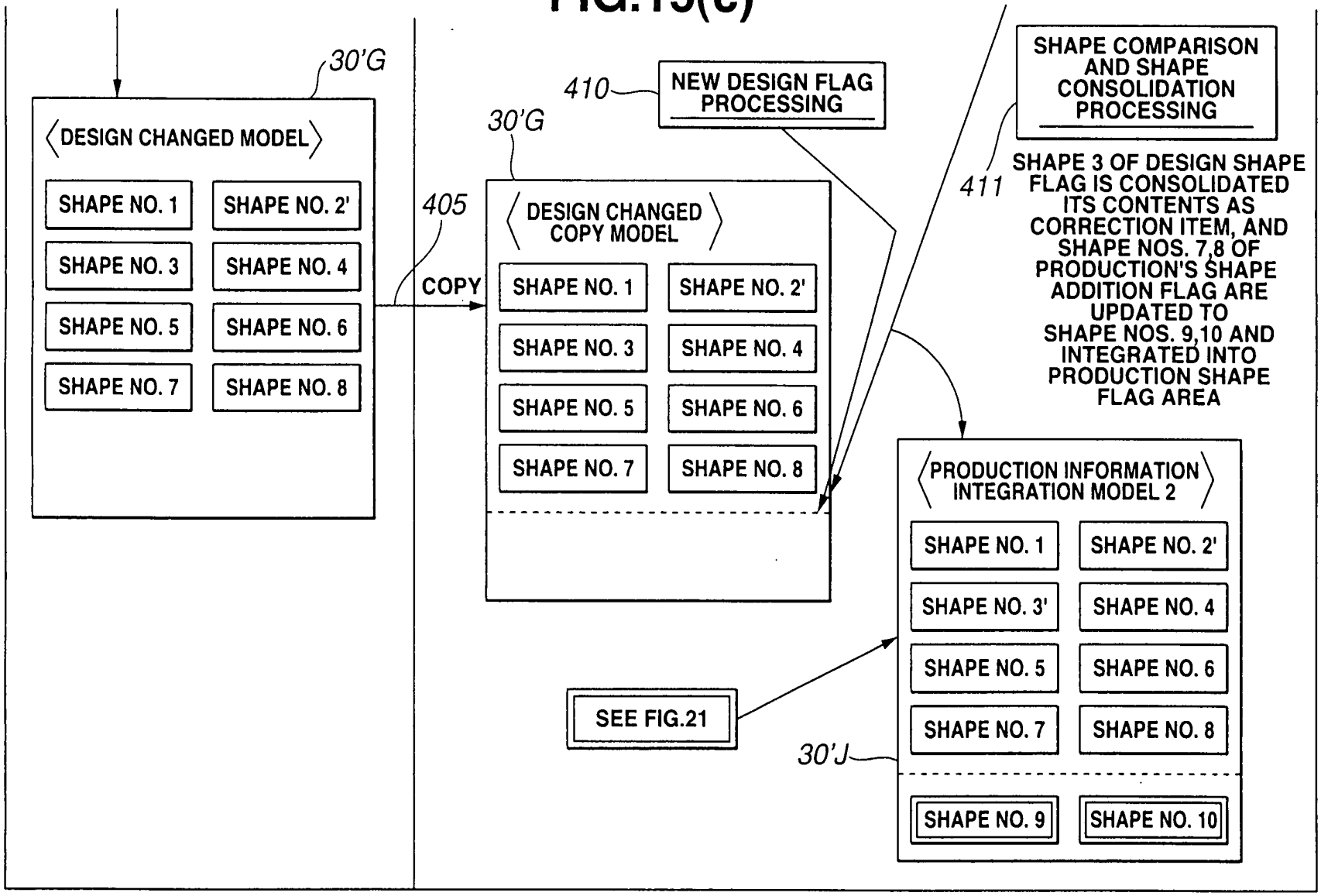


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FIG.16

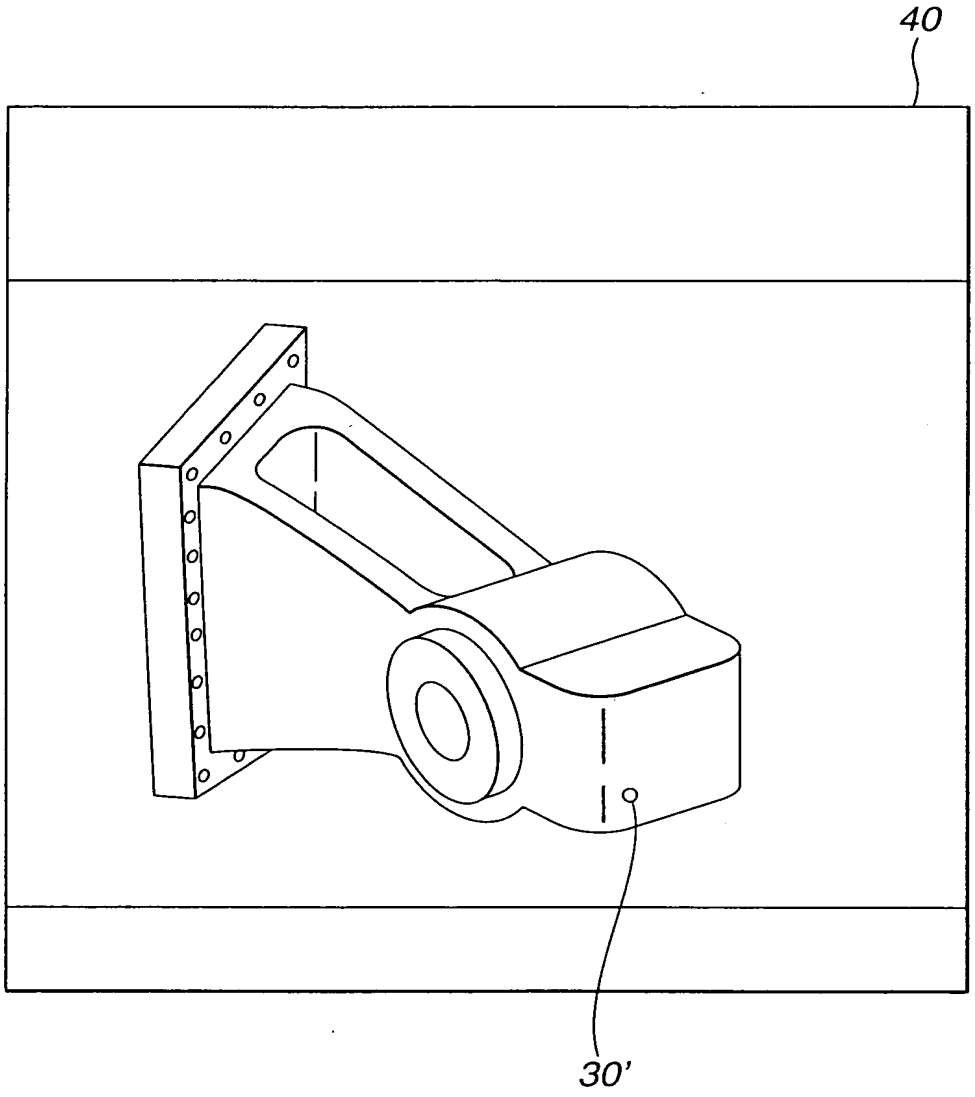

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FIG.17

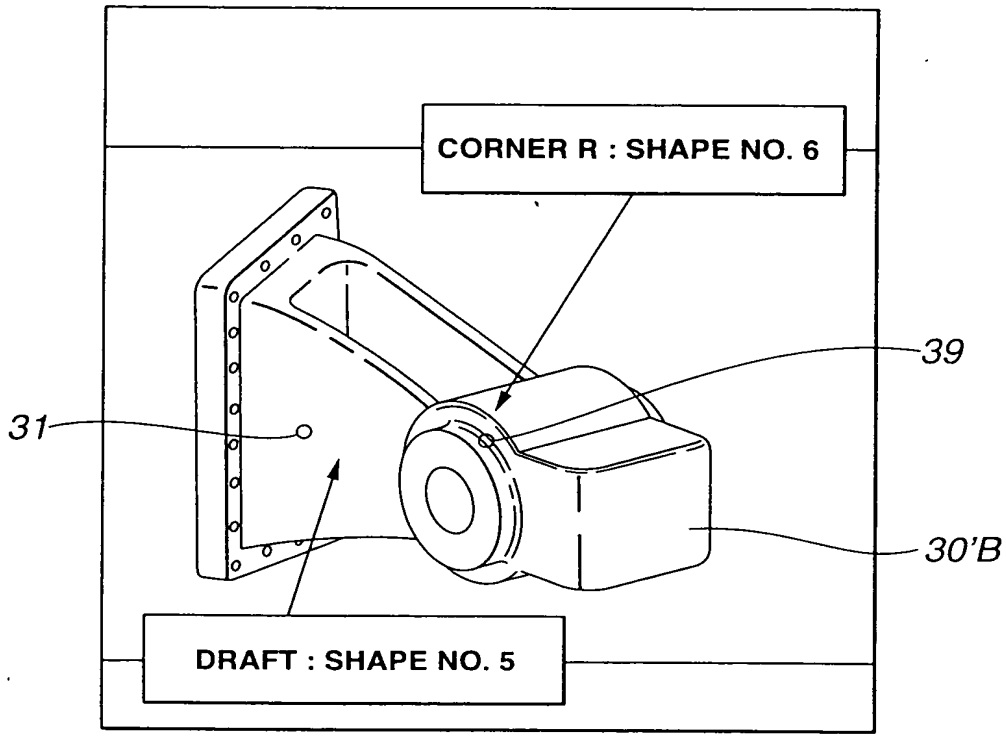

FIG.18

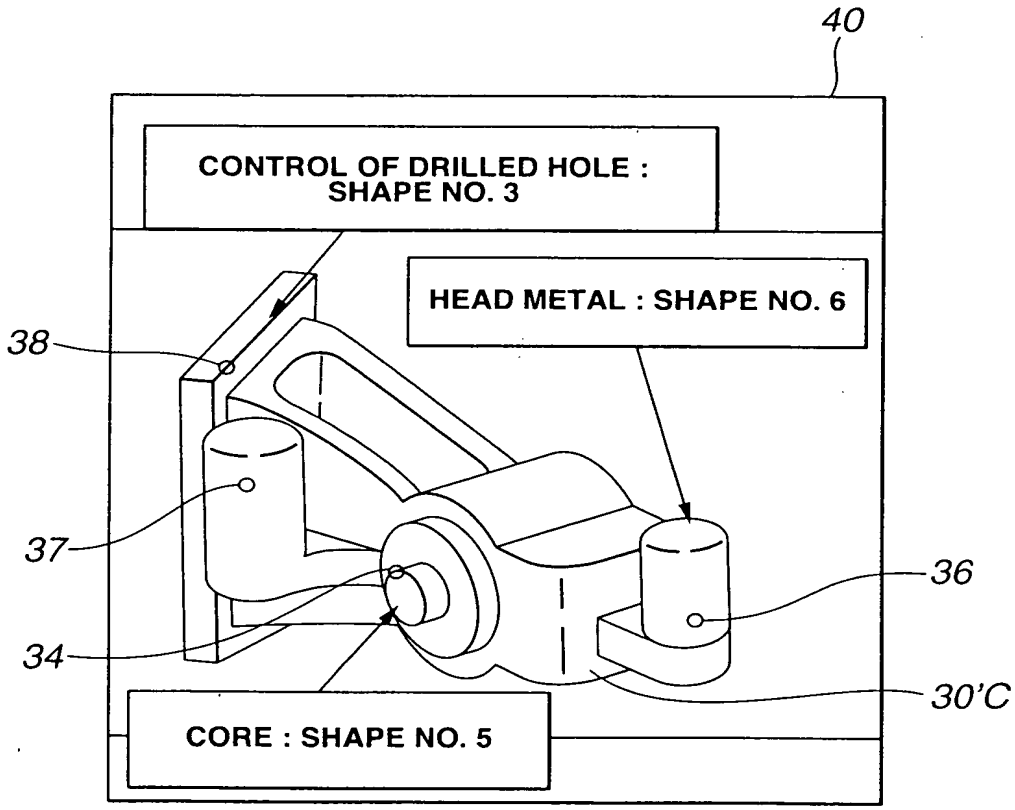
40
CONTROL OF DRILLED HOLE : SHAPE NO. 3
HEAD METAL : SHAPE NO. 6
38
37
34
36
30'C
CORE : SHAPE NO. 5

FIG.19(a)

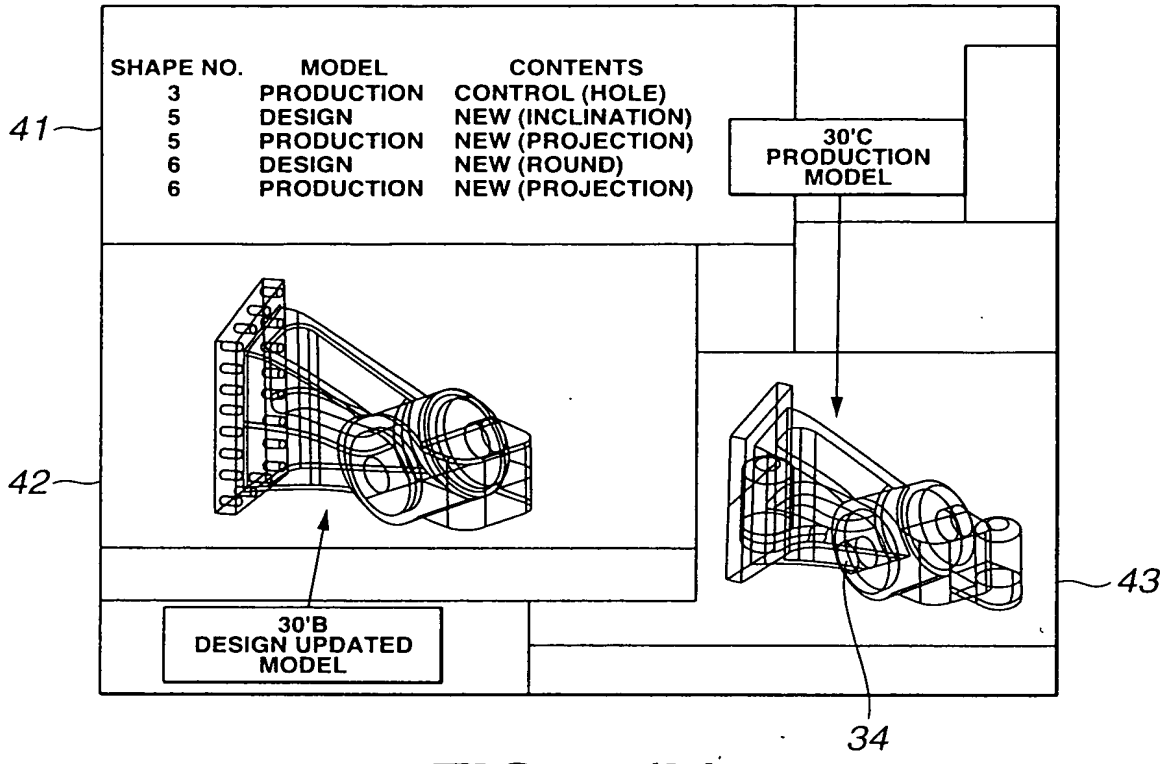

FIG.19(b)

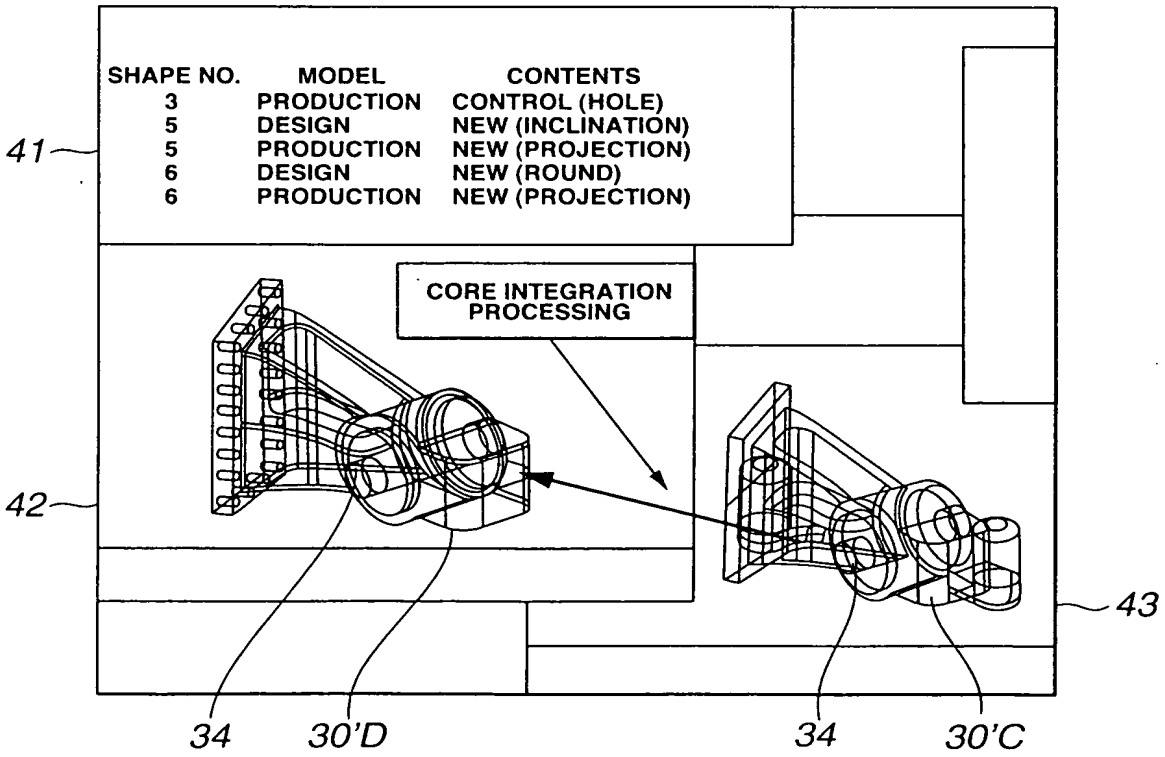

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FIG.20(a)

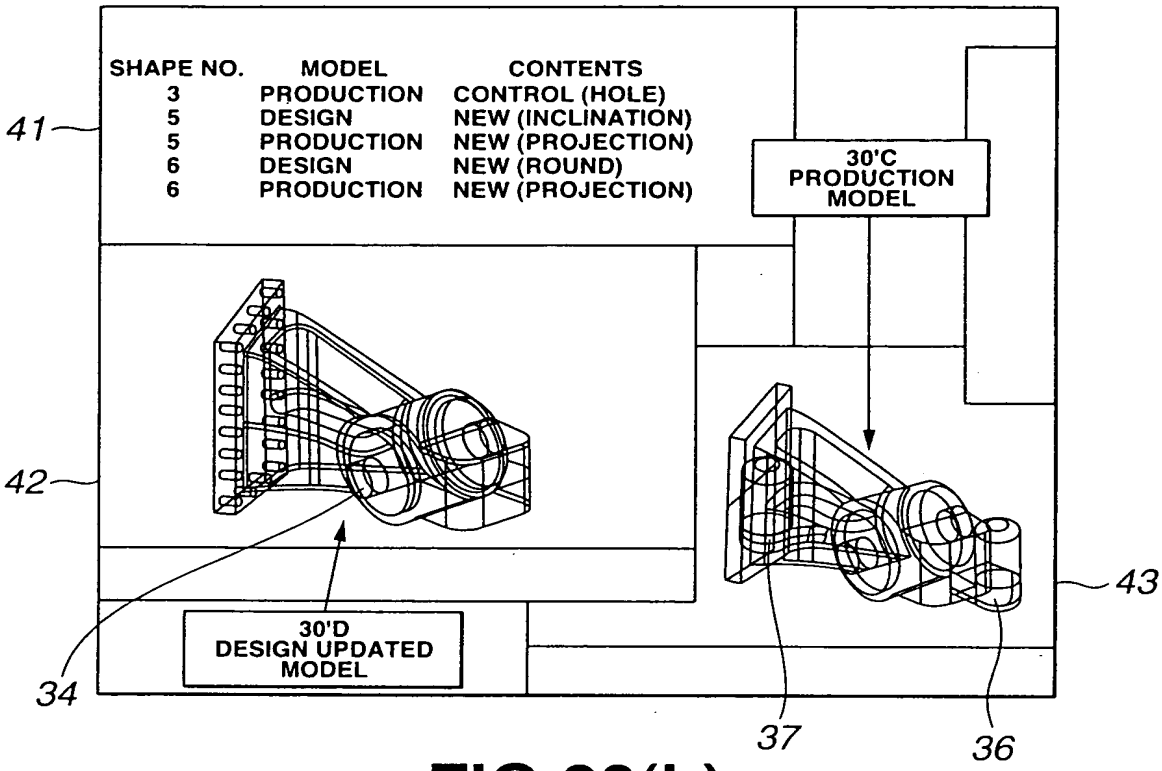

FIG.20(b)

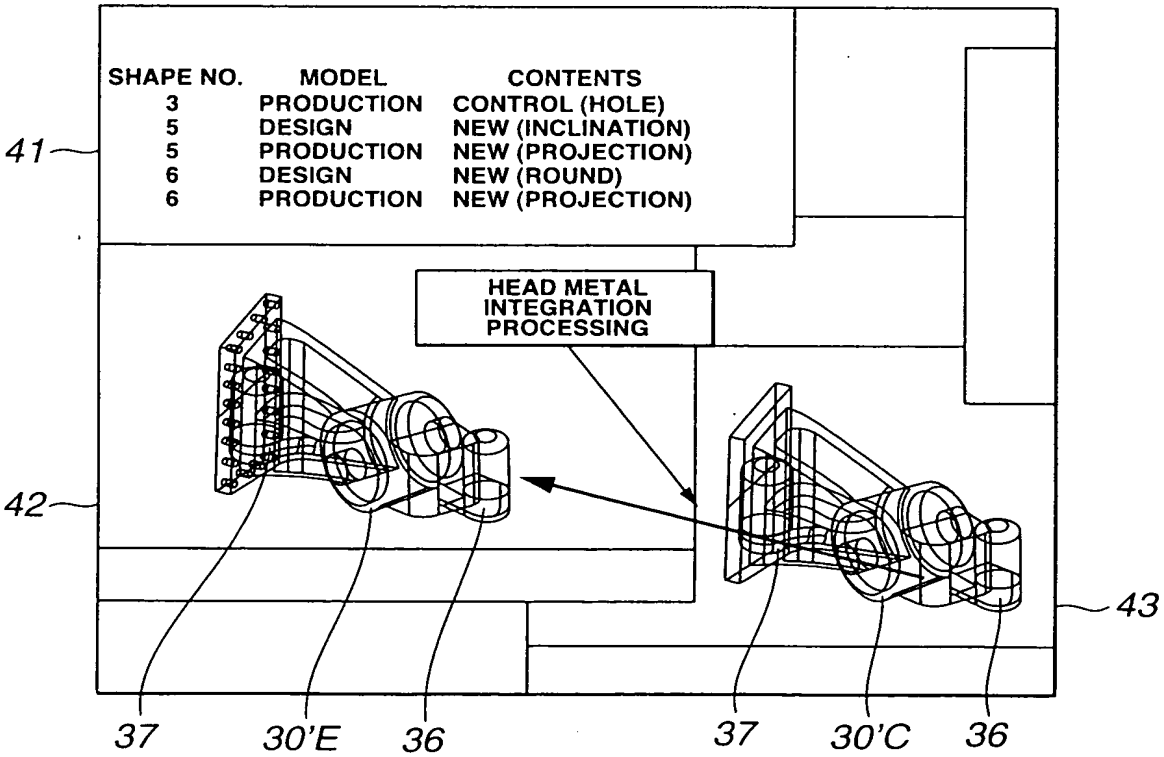

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FIG.21

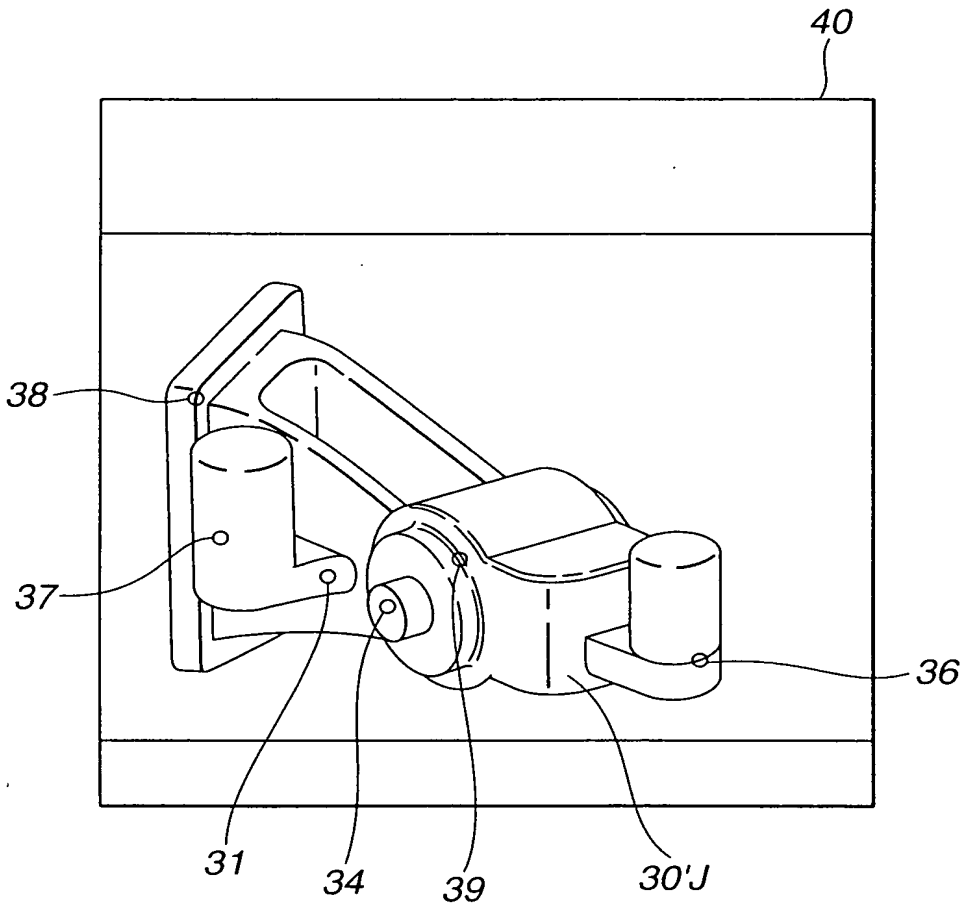
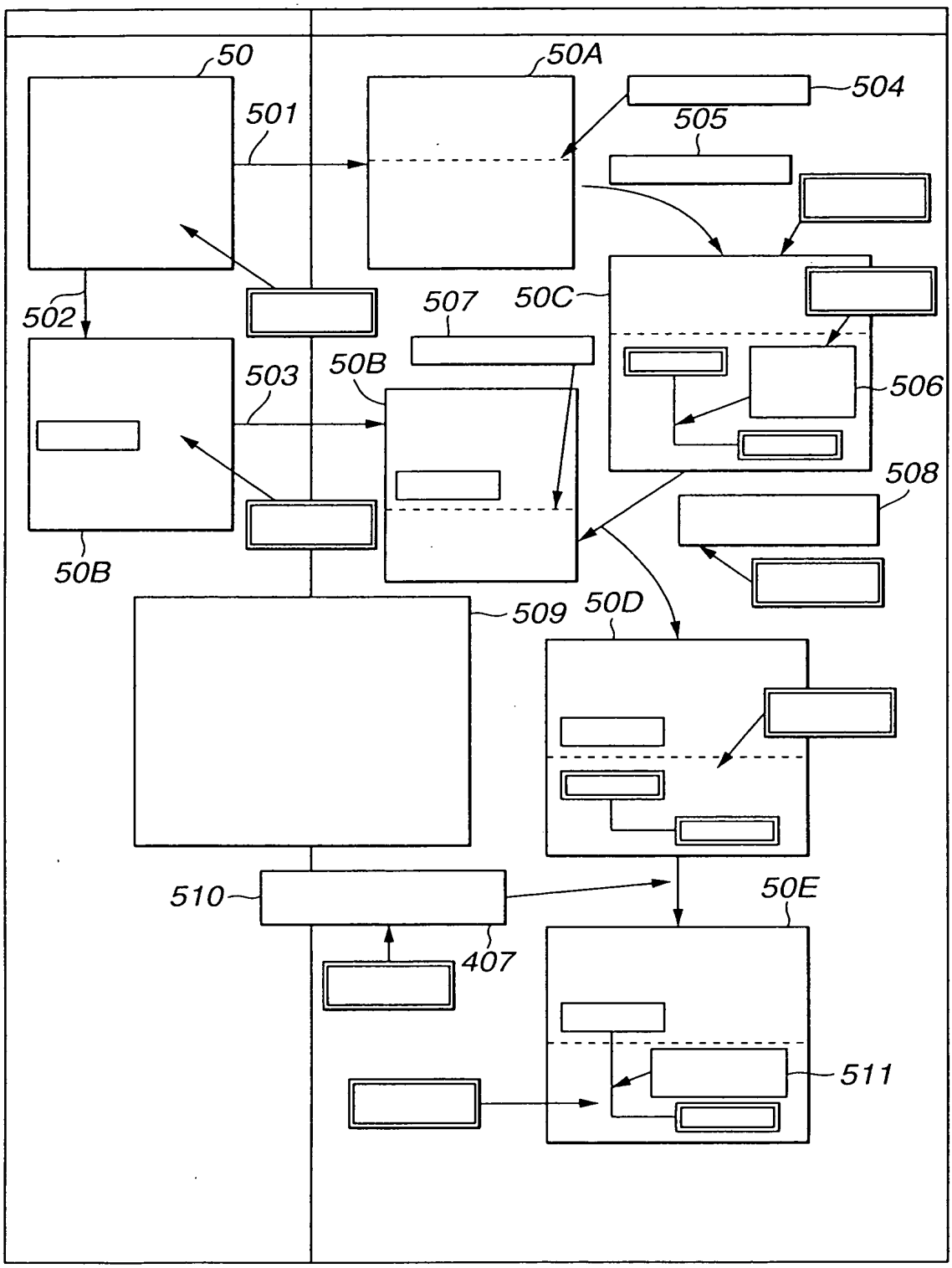


FIG.22



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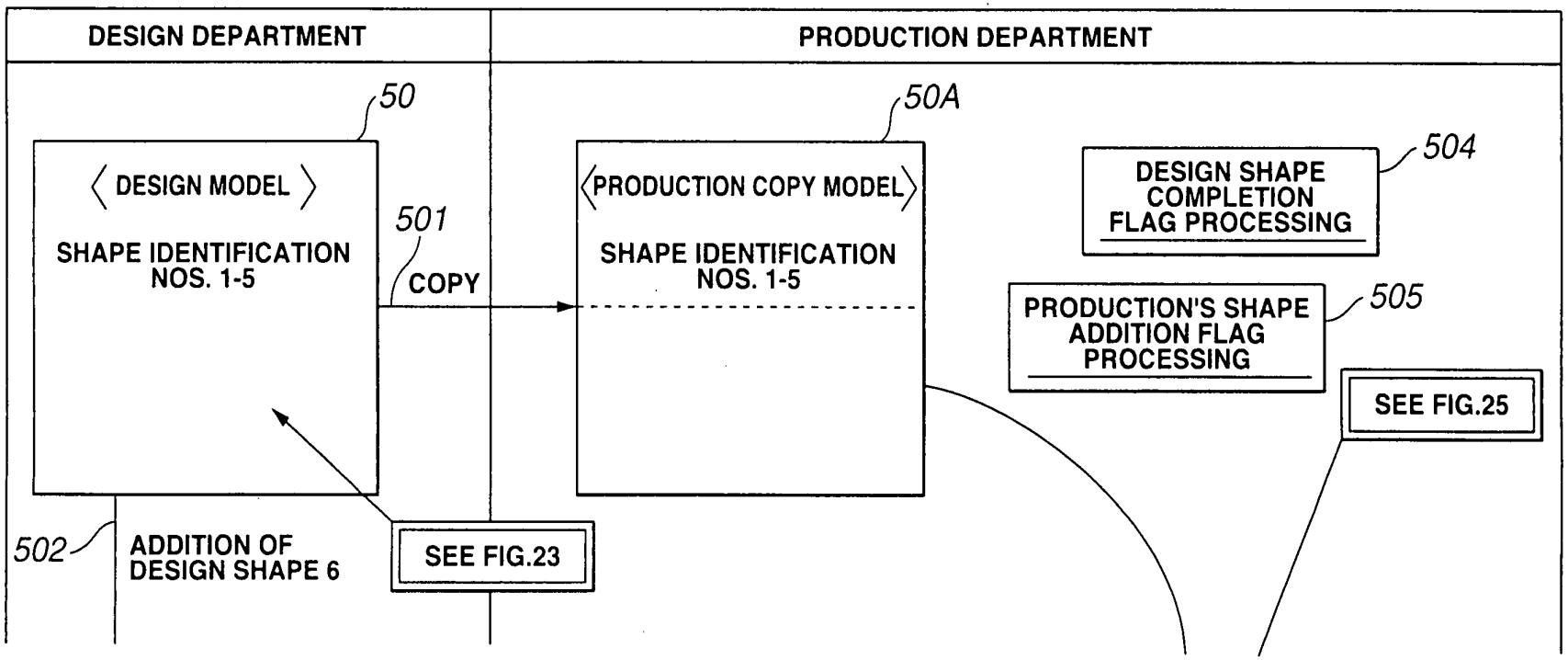
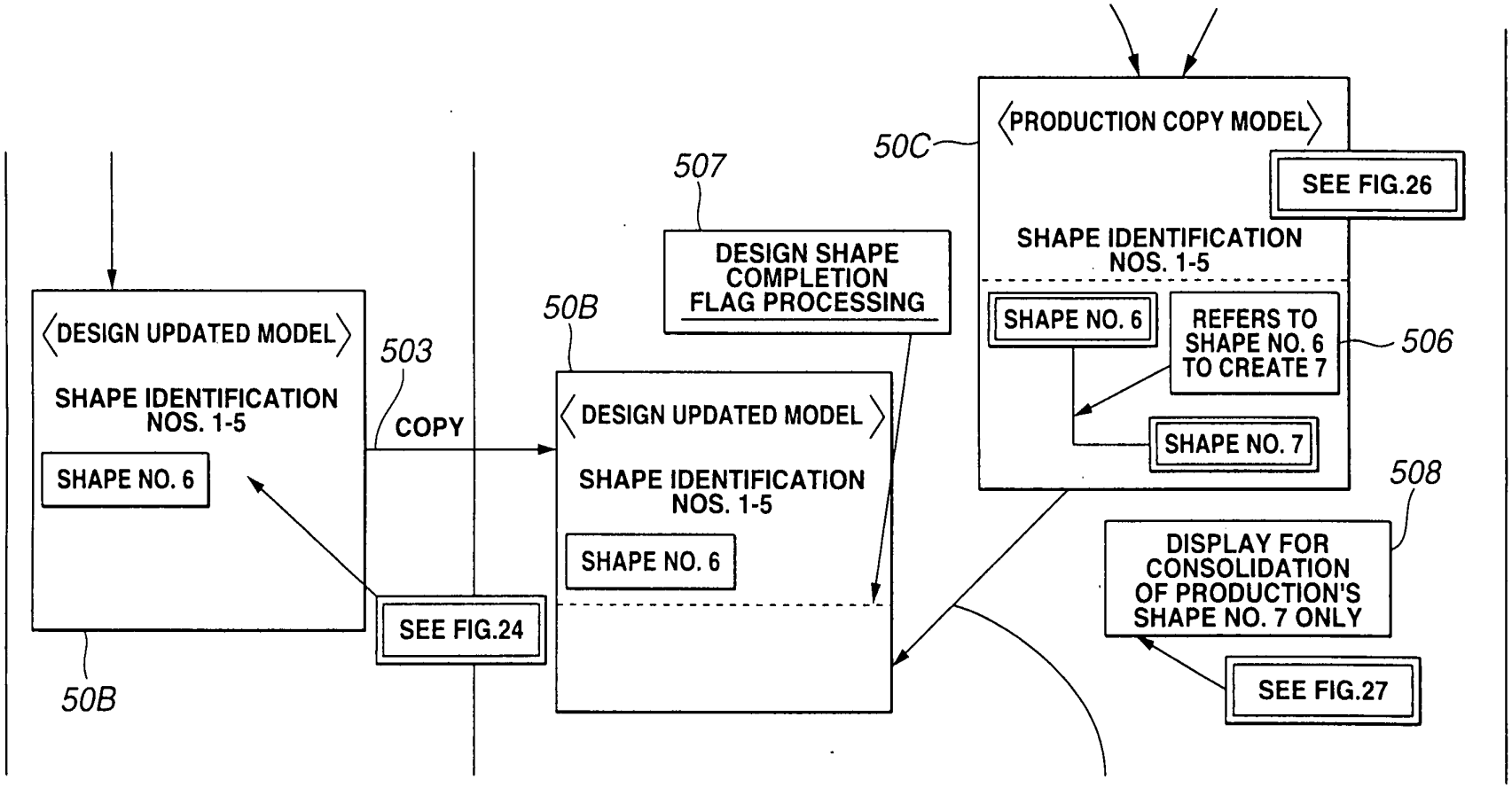
20STTO"980SHOOT

FIG.22(a)



20STTO"980SH00T

FIG.22(b)



20STTO"980SHOOT

FIG.22(c)

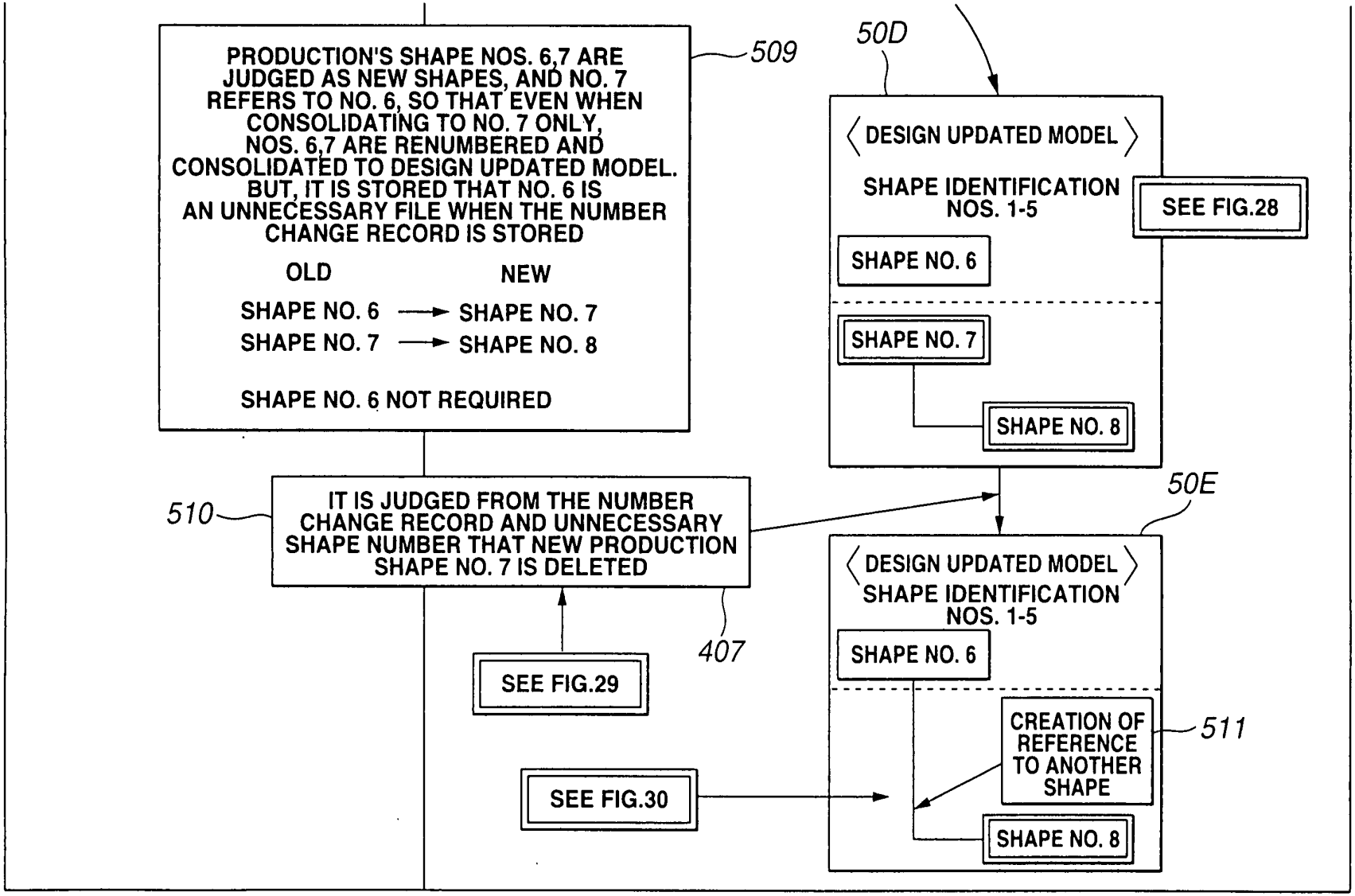


FIG.23

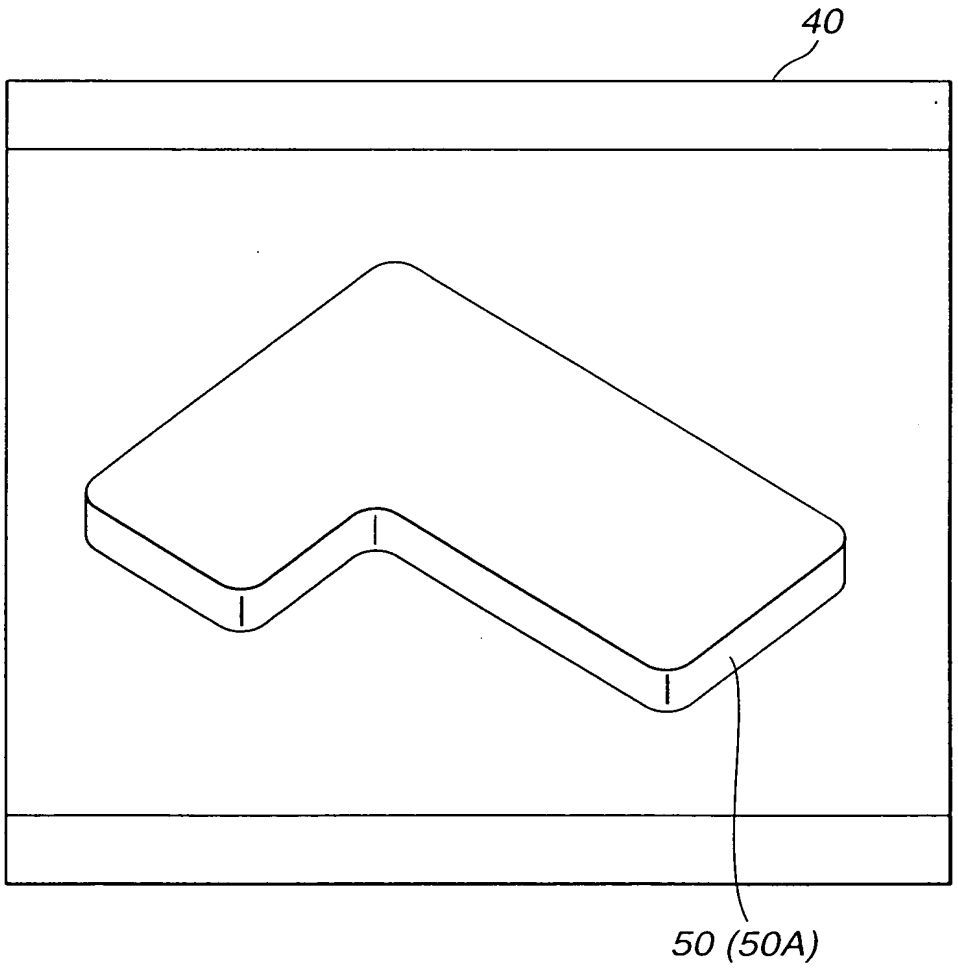


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FIG.24

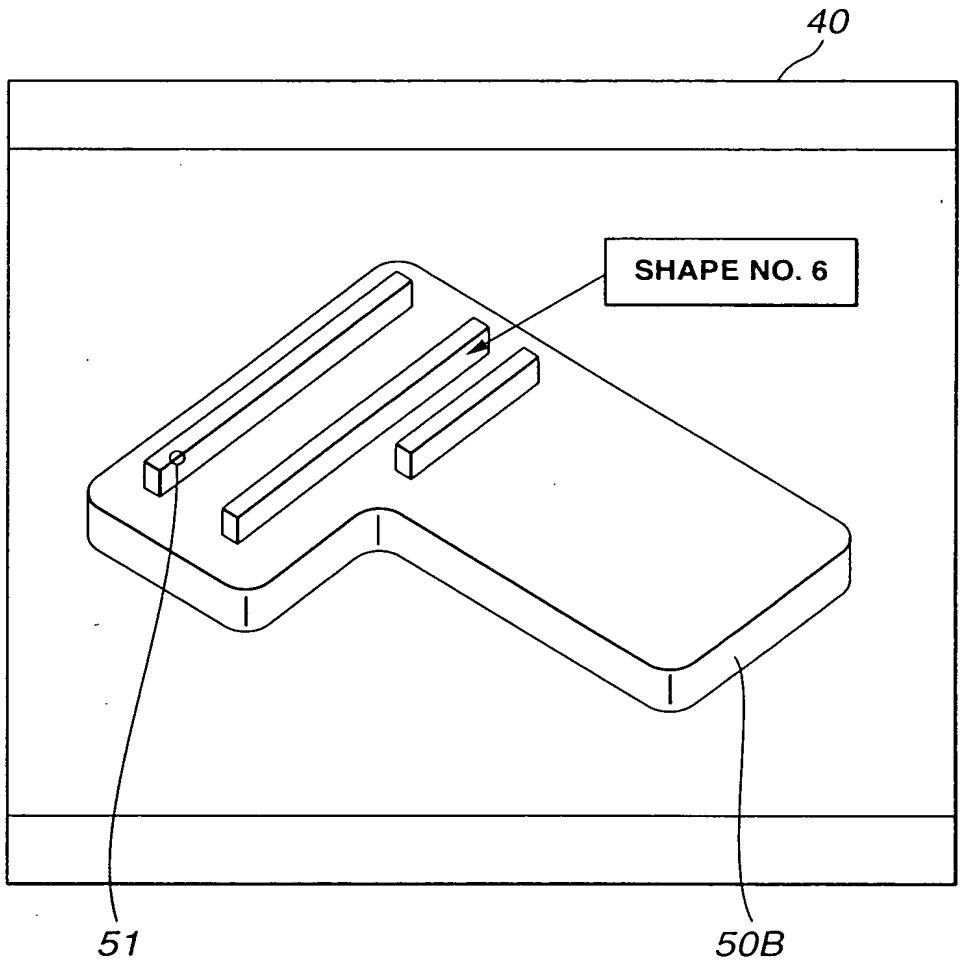

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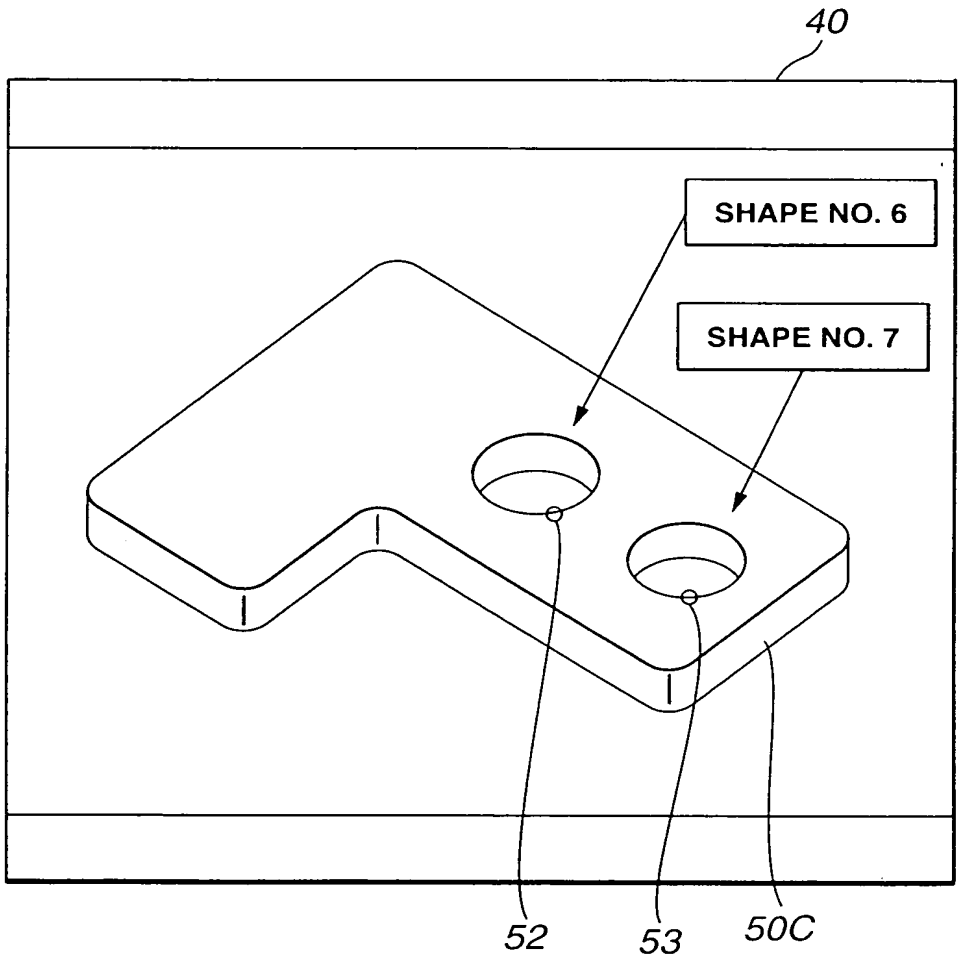
FIG.25



JP04508602

FIG.26

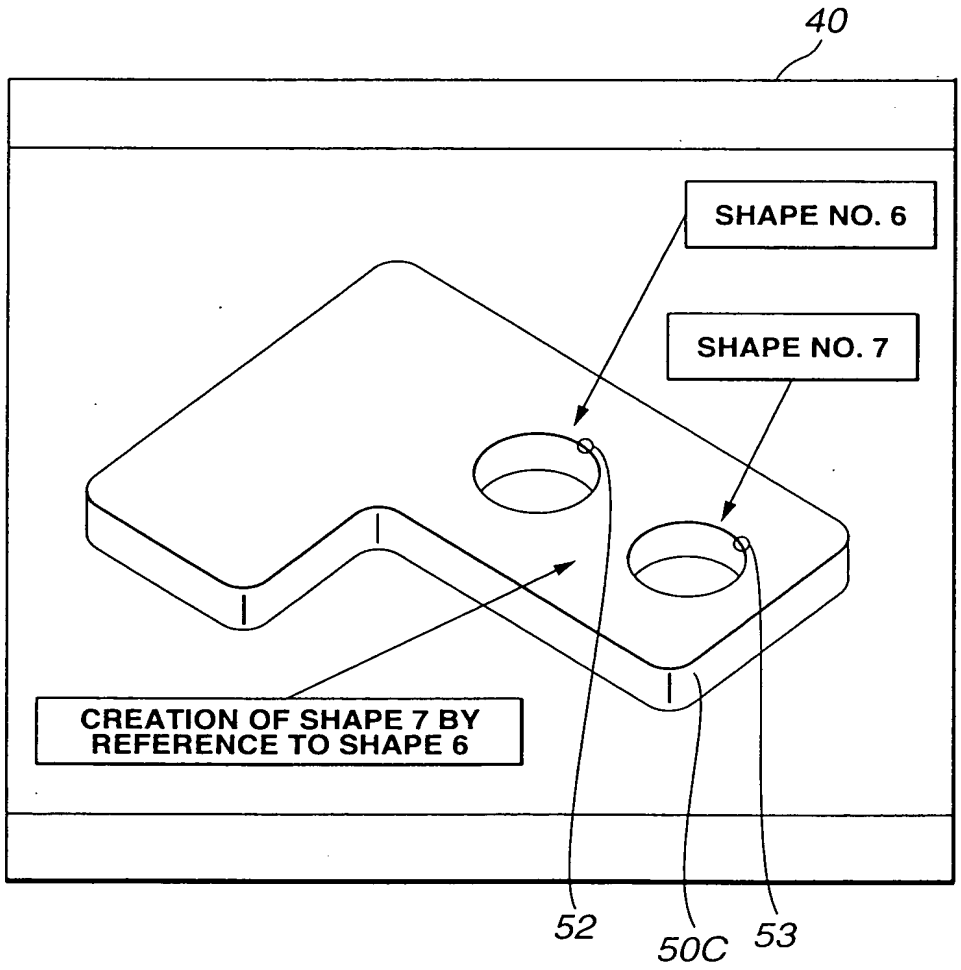


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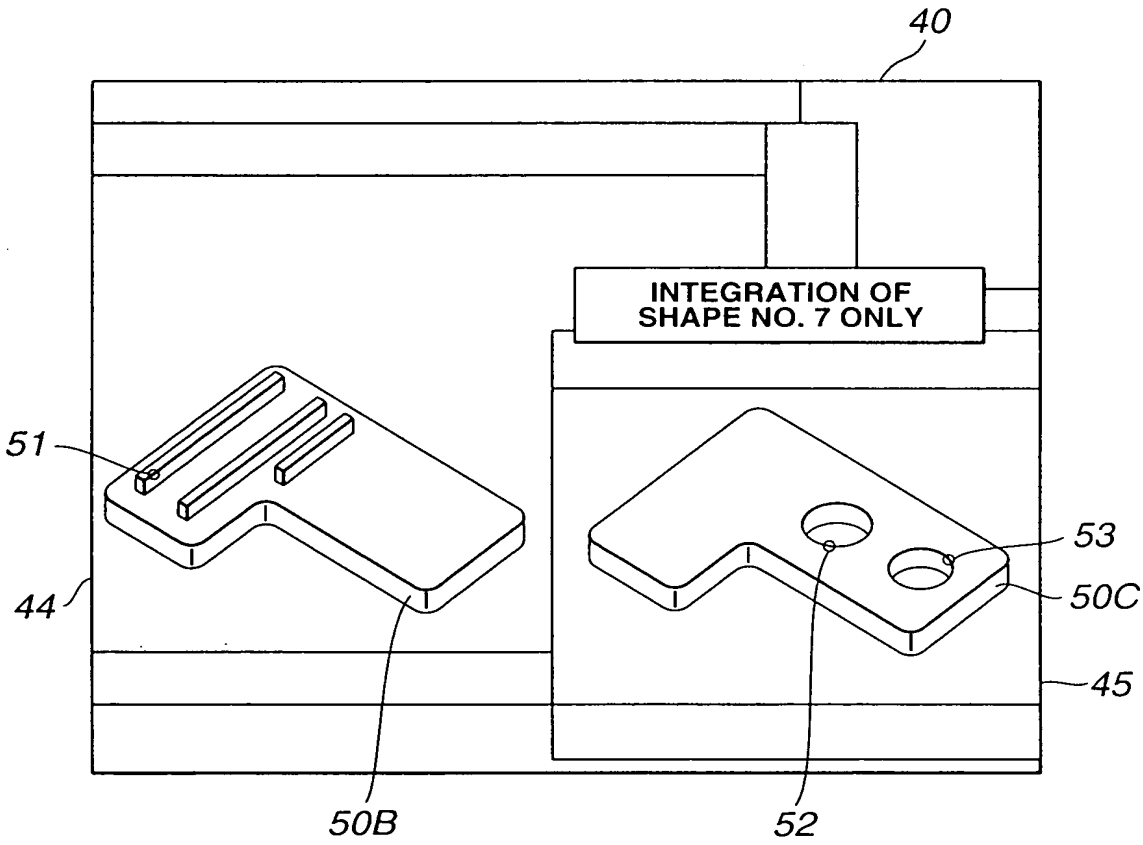
FIG.27



JP2004506504A

FIG.28

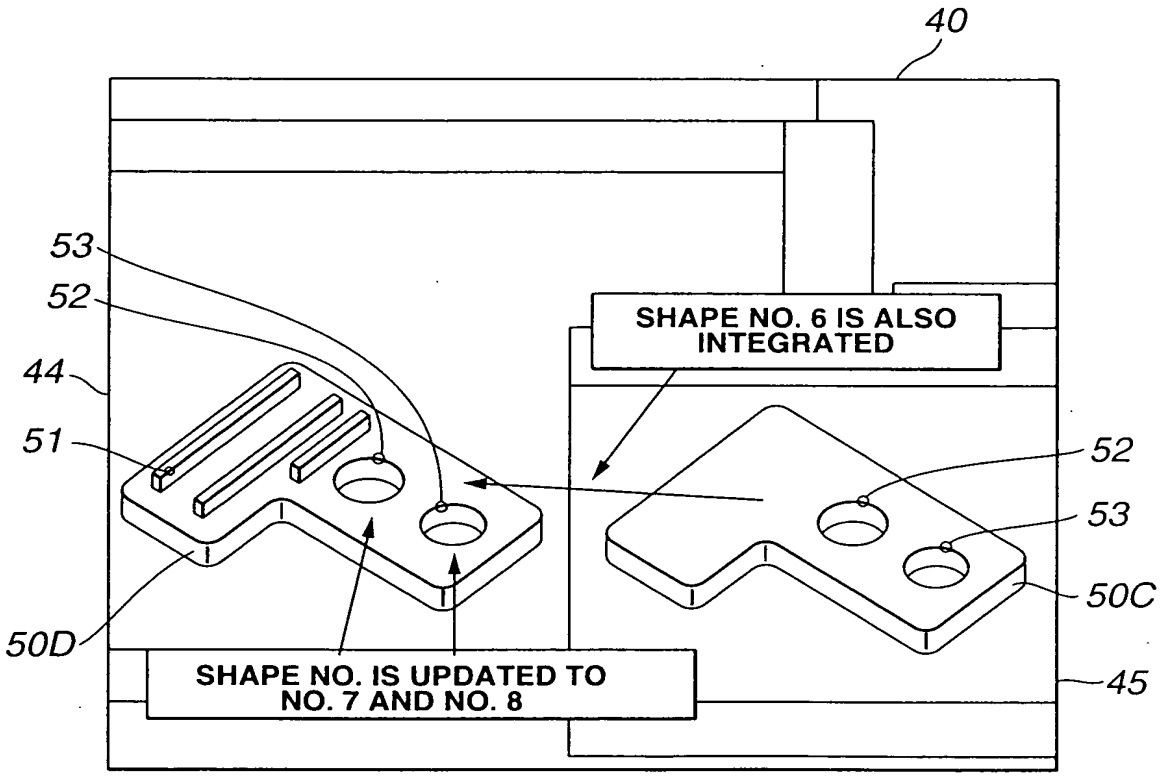


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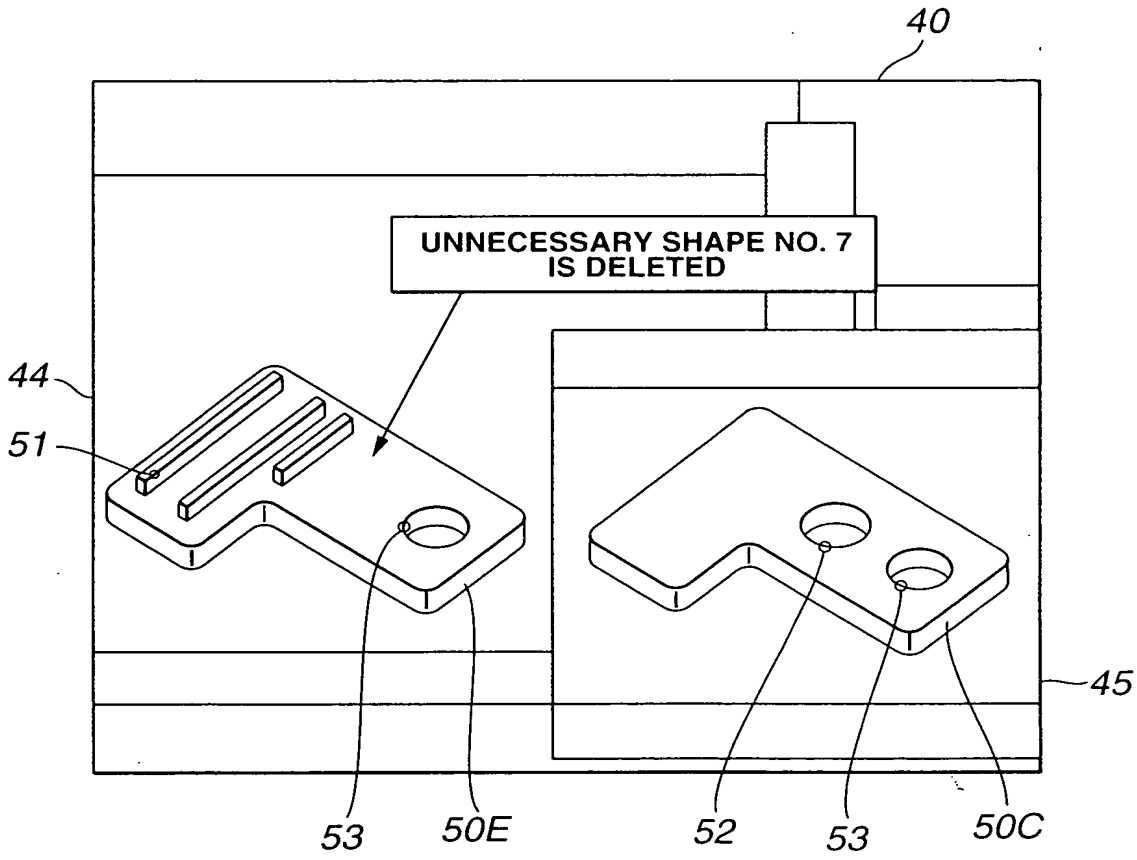
FIG.29



JP2004508502A 2004.3.18

FIG.30

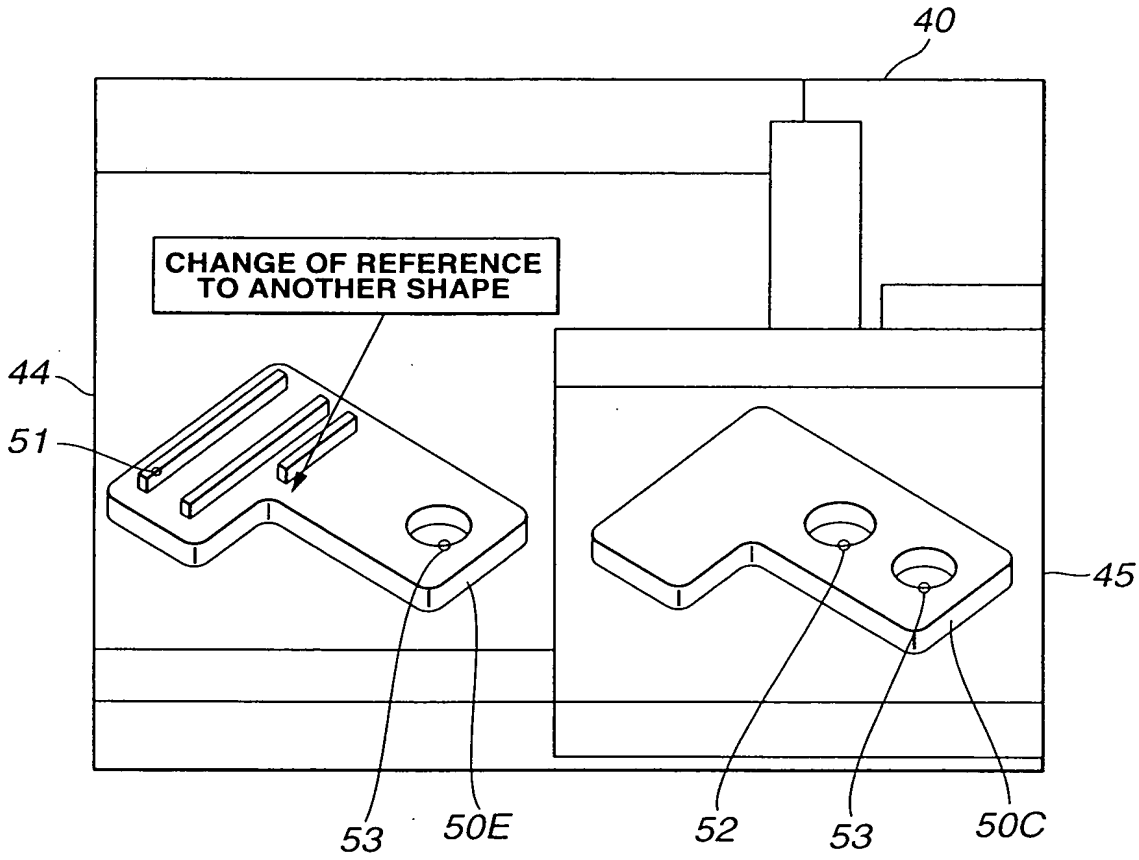


FIG.31(PRIOR ART)

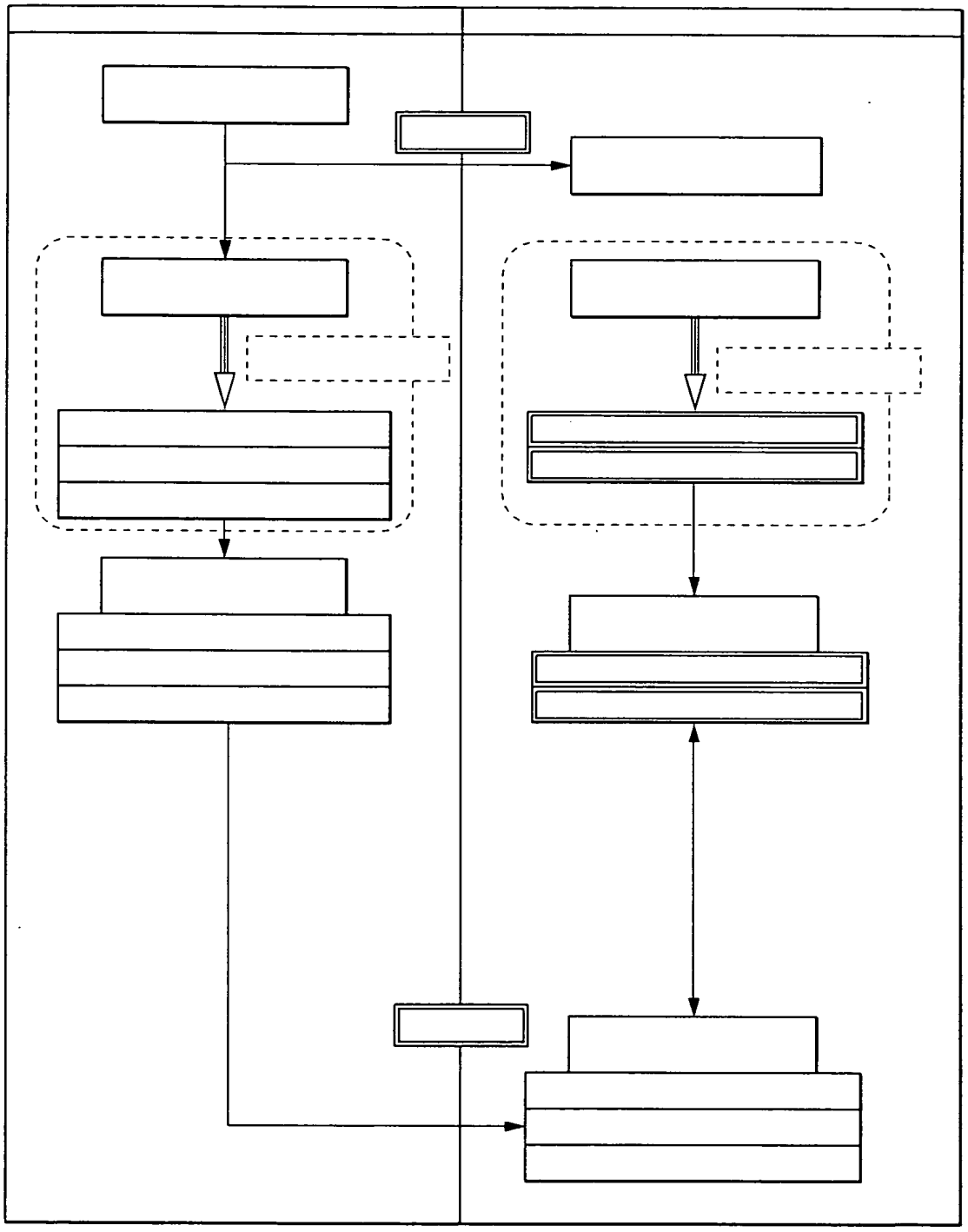


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FIG.31(a) (PRIOR ART)

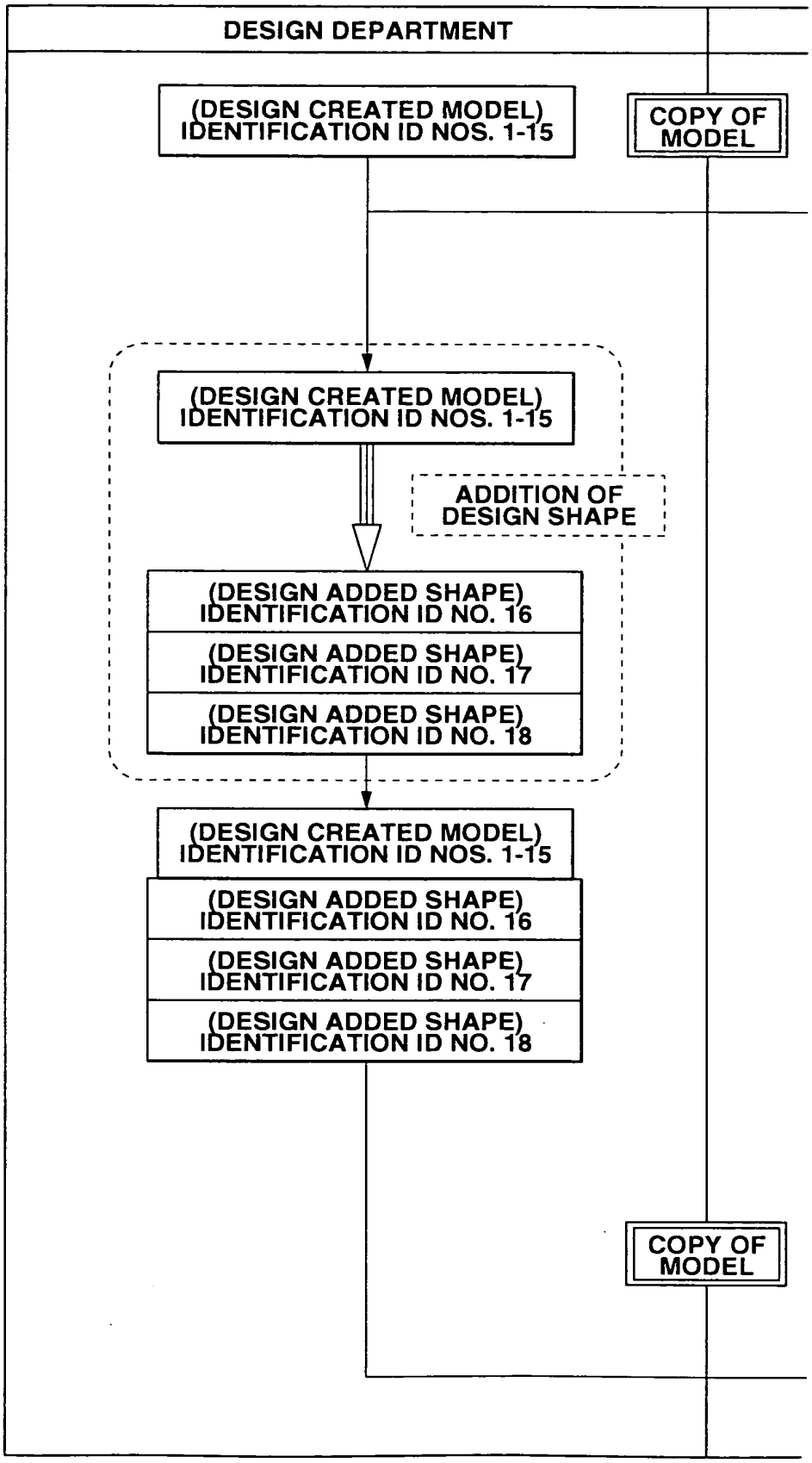

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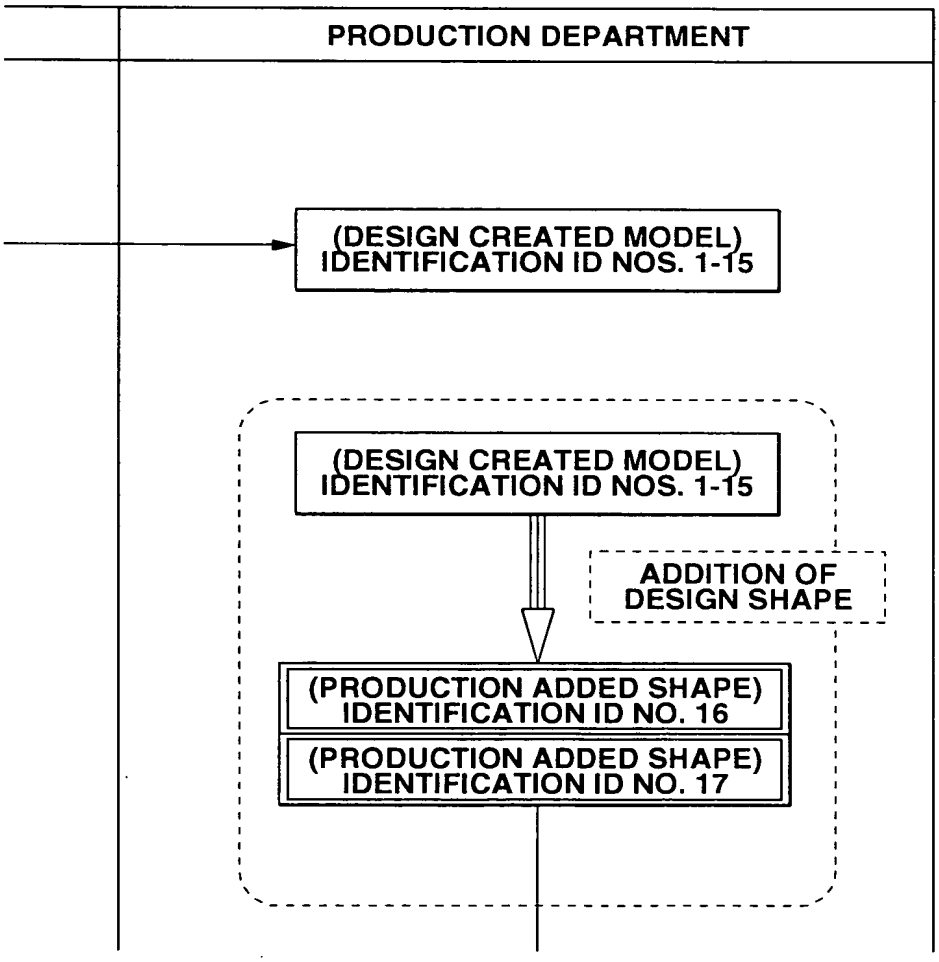
FIG.31(b) (PRIOR ART)



JP04508605-041502

FIG.31(c) (PRIOR ART)

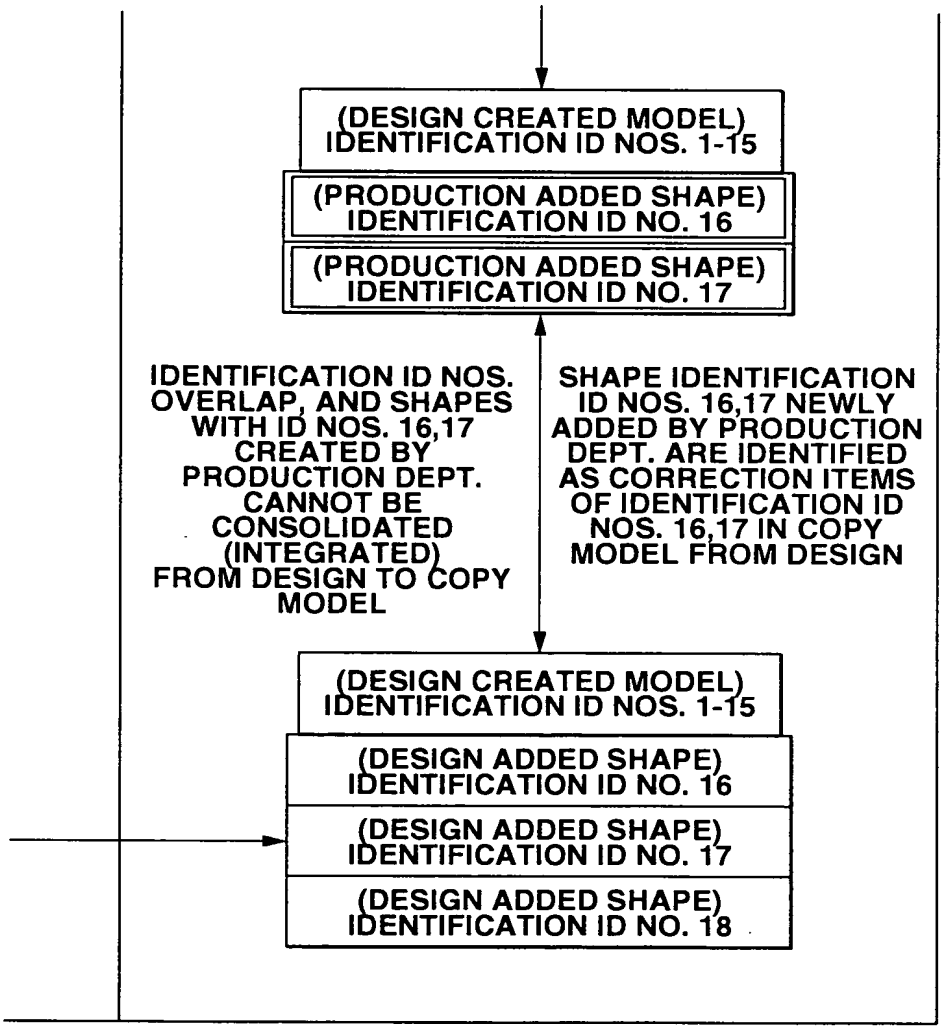


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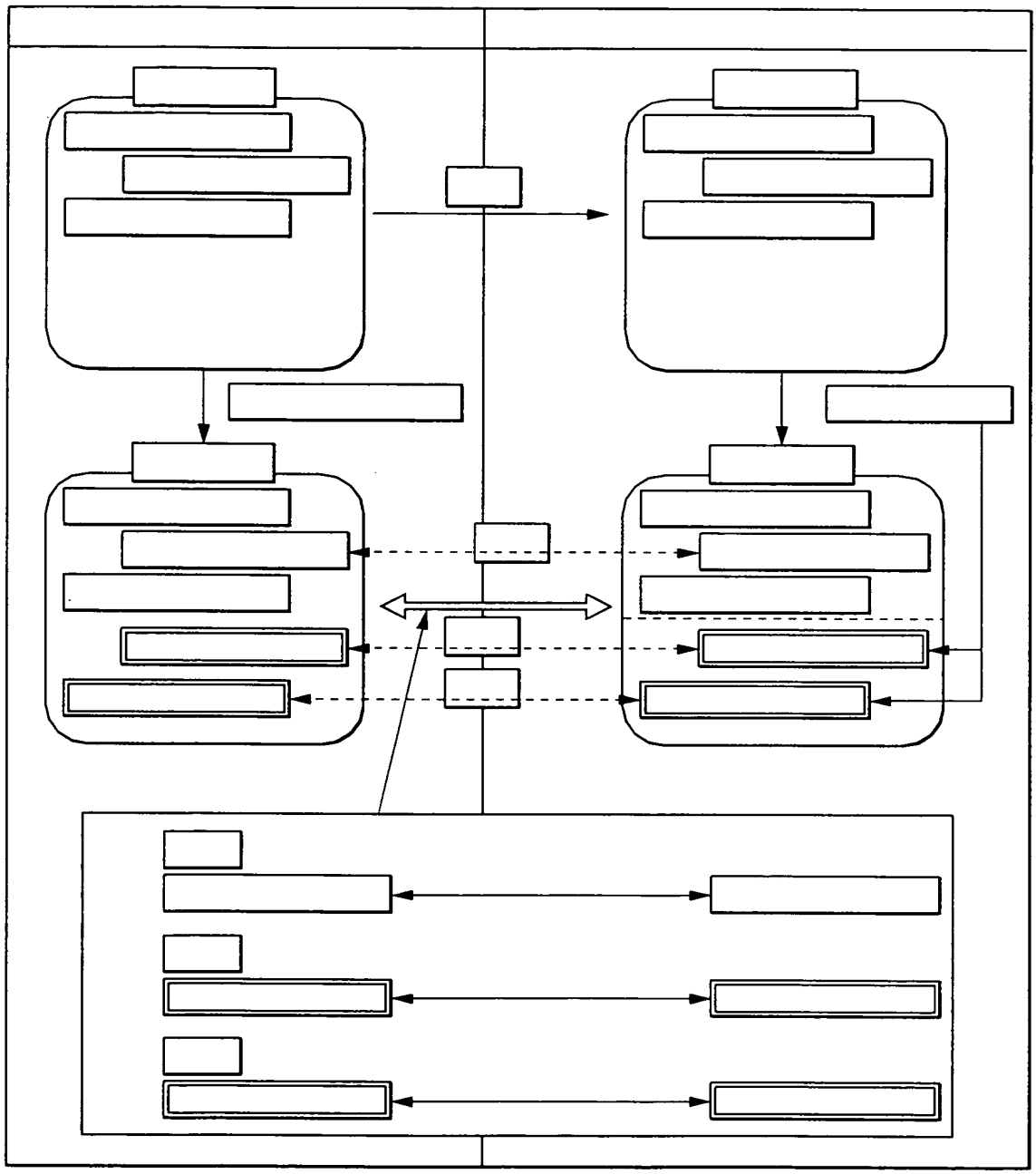
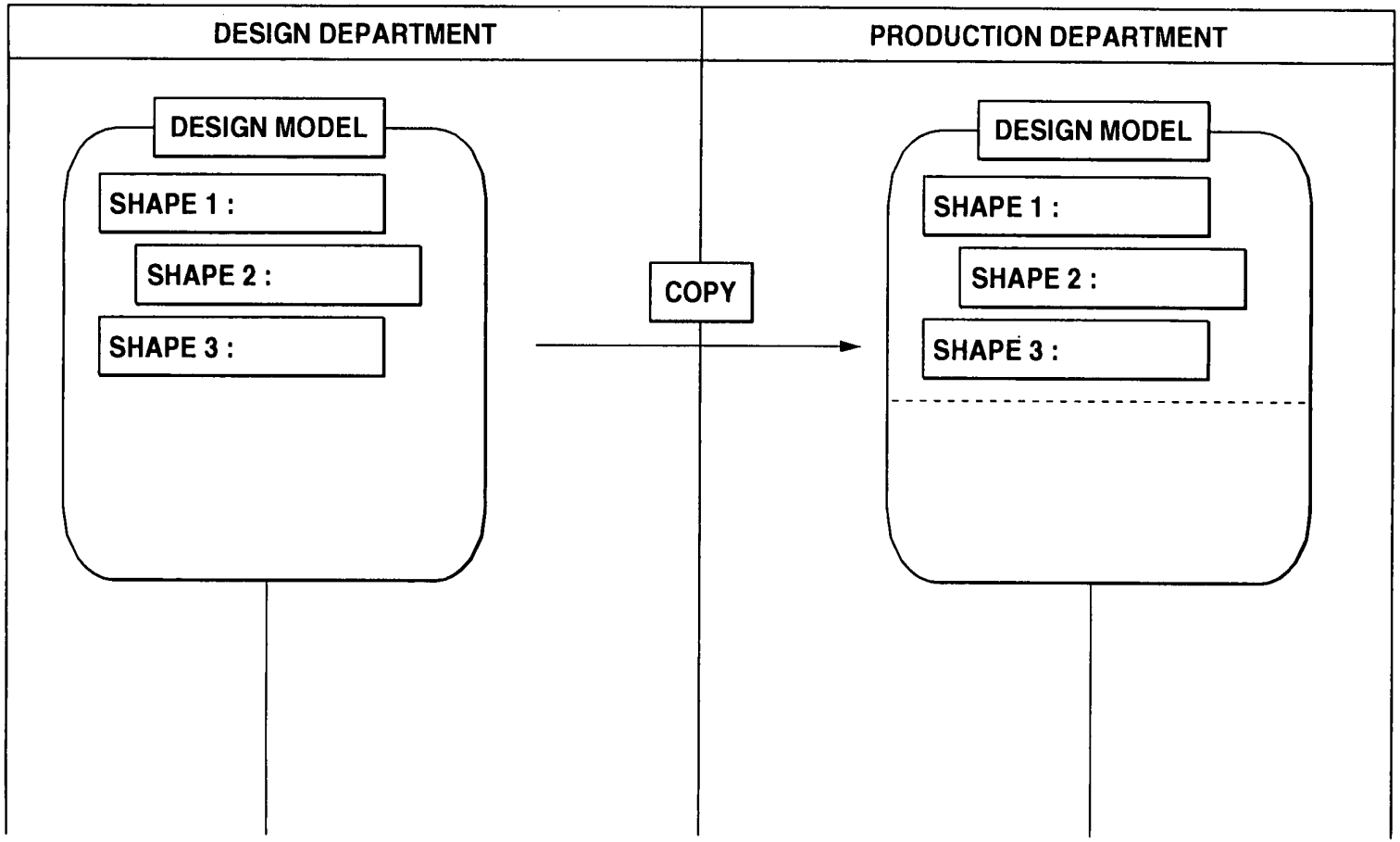
FIG.32 (PRIOR ART)



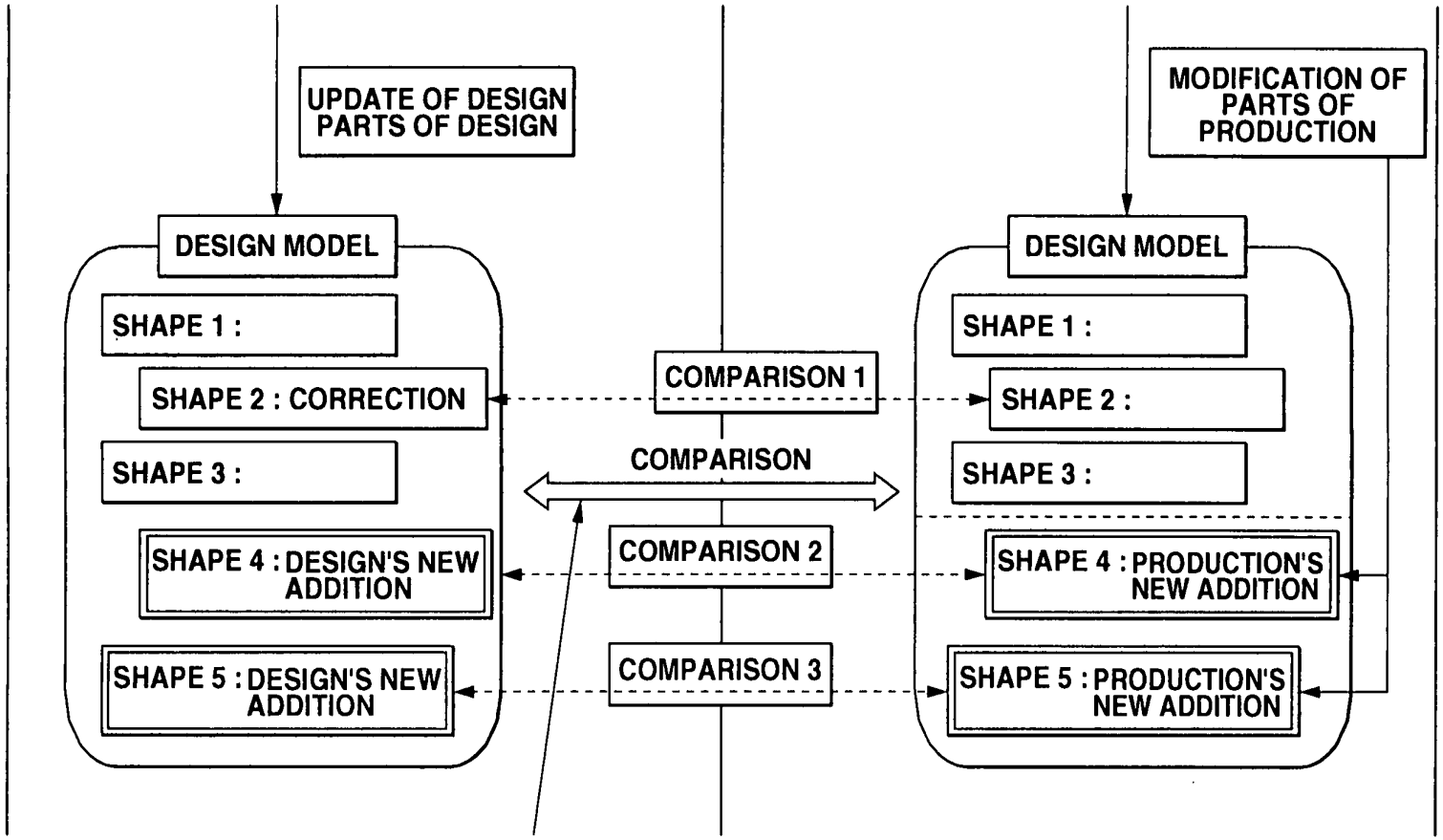
20STTO"9805h00T

FIG.32(a) (PRIOR ART)



20STTO" 9805h0T

FIG.32(b) (PRIOR ART)



20STTO" 9805h0T

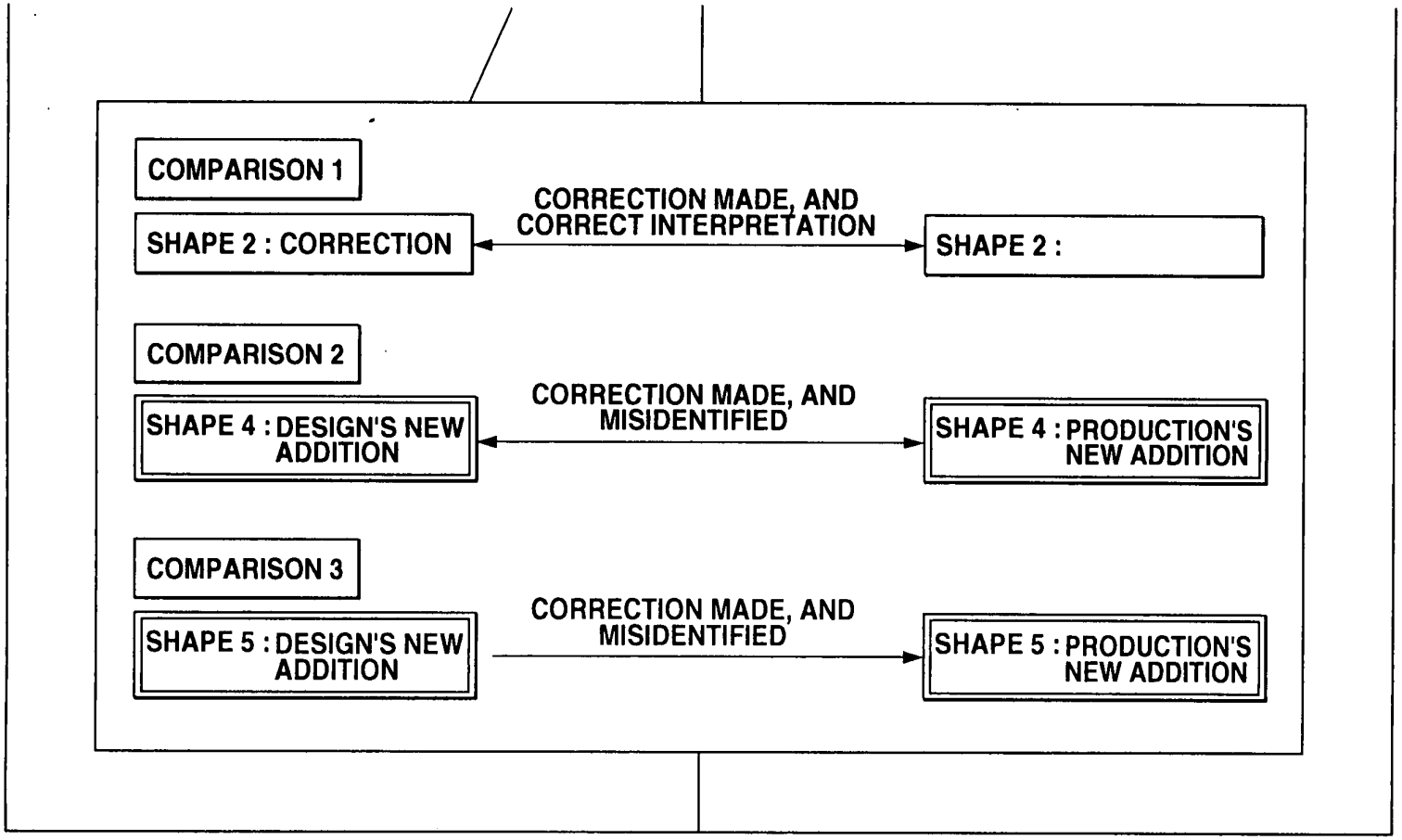



FIG.32(c) (PRIOR ART)